

19981105.qrp v01_n267.qrs.981105

Date: Thu, 5 Nov 1998 19:03:18 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1267

QRP-L Digest 1267

Topics covered in this issue include:

- 1) [24168] Ok guys.....time out.
by Bill Wyatt <bwyatt@onenet.net>
- 2) [24169] Effective mail filter
by VE3JC - John C <jbcumming@wwdc.com>
- 3) [24170] Staying on the QRP topic
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 4) [24171] Re: Homebrew Spectrum Analyzer for the Radio Amateur(Long)
by Bob Painter <turnkey@exo.com>
- 5) [24172] Re: QQ Availability and dues
by "George Heron" <gheron@idt.net>
- 6) [24173] For Sale; 38 Special, HTX-100,PKRATT-232, RS Amps
by "Scott A. Thomas" <n1st@ntplx.net>
- 7) [24174] Membership #??
by Steve Gaiser <sgaiser@pclink.com>
- 8) [24175] N2TPA: Re: Sweepstakes Logging program
by n2tpa@juno.com (Bill d Lazure)
- 9) [24176] Re: Homebrew Spectrum Analyzer for the Radio Amateur(Long)
by "Gene Hall" <evhall@ix.netcom.com>
- 10) [24177] Small charger needed
by RangerSF5@aol.com
- 11) [24178] Re: origin of the term "HAMS"
by Peter Larsen <larsenp@cadvision.com>
- 12) [24179] Re: N2TPA: Re: Sweepstakes Logging program
by Monte Stark <ku7y@dri.edu>
- 13) [24180] Fw: ARLB095 ARRL Petitions FCC for LF Allocations
by "david r" <elbc@pivot.net>
- 14) [24181] 40 metres alive and well tonight....
by Fred Lesnick <flesnick@tbaytel.net>
- 15) [24182] SS contest program
by Wayne Alexander <walexan@ipa.net>
- 16) [24183] FOX: N/T out of the shoot FB!
by Macstein@aol.com
- 17) [24184] RE: Logging Program-An apology
by n2tpa@juno.com (Bill d Lazure)
- 18) [24185] FOX: TU BRIAN / KB9BVN
by JFD / WA8GHZ /5 <jdougher@wt.net>
- 19) [24186] More bug stories

- by Jess Gypin <jessqrp@concentric.net>
- 20) [24187] Re: Swimming pool as an earth ground
by "Rud Merriam" <rmerriam@csi.com>
- 21) [24188] Free SS Logger
by "David Ek" <ekdave@earthlink.net>
- 22) [24189] Re: KC5TJA <kc5tja@topaz.axisinternet.com>: KC7Z?? on or around
7.127MHz
by "Rud Merriam" <rmerriam@csi.com>
- 23) [24190] Vanity calls
by Chuck Adams <adams@ticnet.com>
- 24) [24191] SS preparation
by Chuck Adams <adams@ticnet.com>
- 25) [24192] FOX: Team scores
by Bruce Rattray <rattray@gpfn.sk.ca>
- 26) [24193] Re: Surviving QRP-L
by mwattcpa@earthlink.net (Marty Watt)
- 27) [24194] QRP-L Posting Guideline
by "Paul R. Valko" <prvalko@oakland.edu>
- 28) [24195] WOW!!! First time FOX FREAKS OUT
by brian <brian@iquest.net>
- 29) [24196] Tayloe mixer, Now an Rx
by Steven Weber <kd1jv@moose.ncia.net>
- 30) [24197] COUNTERPOISE and VELOCITY FACTOR
by ARDUJENSKI@aol.com
- 31) [24198] Zombie Shuffle Update
by Paul Harden <pharden@aoc.nrao.edu>
- 32) [24199] Re: Swimming pool as an earth ground
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 33) [24200] FOX: Fox/2 Log
by KC5TJA <kc5tja@topaz.axisinternet.com>
- 34) [24201] Avil for QSO 28.060?
by "Bill Todd" <bill@willapabay.org>
- 35) [24202] Re: Resonant Speaker project and Patents.
by "Bill Todd" <bill@willapabay.org>
- 36) [24203] 11/5/98 28.8 MHz 1400 hrs UTC
by N2qce@aol.com
- 37) [24204] Shareware Contest Logger Available
by Bob Patten <n4bp@bc.seflin.org>
- 38) [24205] Re: Homebrew Spectrum Analyzer for the Radio Amateur
by Dave Fifield <fifield@pacbell.net>
- 39) [24206] Re: QRP-L Posting Guideline
by VE3JC - John C <jbcumming@wwdc.com>
- 40) [24207] Re: Fox/2 Log
by "tom palmer" <n1tp@worldnet.att.net>
- 41) [24208] FS: FT757GxII, 9913 & stuff
by Niel Skousen <skousen@srv.net>
- 42) [24209] Al tubing sources/references sought
by Niel Skousen <skousen@srv.net>

- 43) [24210] Elmer200: Lesson Number 2
by Chuck Adams <adams@ticnet.com>
- 44) [24211] Re: Shareware Contest Logger Available
by Chuck Adams <adams@ticnet.com>
- 45) [24212] (no subject)
by Rick Mintz <Rmintz@frontiernet.net>
- 46) [24213] Results: ARS' November Spartan Sprint
by Richard Fisher <nu6sn@yahoo.com>
- 47) [24214] QSK?
by Brad Mugleston <bmug@gwl.com>
- 48) [24215] Soapbox: ARS' November Spartan Sprint
by Richard Fisher <nu6sn@yahoo.com>
- 49) [24216] Sweepstakes logging program
by Lamborn@onlinecol.com
- 50) [24217] Homebrew Spectrum Analyzer for the Radio Amateur
by Stewart Whitehouse <STEW_W@compuserve.com>
- 51) [24218] Re: filters
by Dave Sjolin <sjolin@swbell.net>
- 52) [24219] QSK
by Brad Mugleston <bmug@gwl.com>
- 53) [24220] Praise in Public; Criticize in Private
by "James R. Duffey" <ji3m@maxwell.com>
- 54) [24221] Re: QSK?
by Andy Fox <foxes@theriver.com>
- 55) [24222] Re: QSK
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 56) [24223] Re: Fox/2 Log
by we6w@juno.com (Ed Loranger)
- 57) [24224] Re: QSK
by "Bryan Turner" <turnerw@email.uah.edu>
- 58) [24225] Re: My daughter has a CALLSIGN!
by Chris Cartwright <ccart@dns.vidtel.com>
- 59) [24226] For Sale, HAM-KEY
by kv7g@juno.com
- 60) [24227] RE: QSK?
by Kevin Muenzler WB5RUE <wb5rue@stic.net>
- 61) [24228] Re: NICADS cheap
by "John Humphrey" <jhumphre@ultra-tech.com>
- 62) [24229] RE: QSK
by Kevin Muenzler WB5RUE <wb5rue@stic.net>
- 63) [24230] Re: Fox/2 Log
by KC5TJA <kc5tja@topaz.axisinternet.com>
- 64) [24231] Re: CT Shareware
by Bob Patten <n4bp@bc.seflin.org>
- 65) [24232] Re: QSK?
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 66) [24233] Re: QSK?
by Steven Weber <kd1jv@moose.ncia.net>

- 67) [24234] FS: Icom 728
by "Franco, Nicholas J" <franco@bnl.gov>
- 68) [24235] VXO crystals
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 69) [24236] Fox: Tuesday fox! Be there!
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 70) [24237] N4BP Web Page & Logging Software
by Bob Patten <n4bp@bc.seflin.org>
- 71) [24238] Re: Zombie Shuffle Update
by "Barry L. Geipel" <bgeipel@primenet.com>
- 72) [24239] RE: Smallest Transceiver???
by "Caitlyn M. Martin" <cait.martin@ibm.net>
- 73) [24240] NorCal 20 Status Report
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 74) [24241] Thanks for help on the 38s low volume
by "Brockwell, Stephen E." <brockwse@fssec.army.mil>
- 75) [24242] FOX - N/T+ Reminder
by Brian Murrey <brian@iquest.net>
- 76) [24243] ScQRPion Antler
by "George F. Allgood" <k4pym@carol.net>
- 77) [24244] Sweepstakes and Field Day all-in-one
by Bill Jones <kd7s@psnw.com>
- 78) [24245] Re: NorCal 20 Status Report
by Kory Hamzeh <kory@avatar.com>
- 79) [24246] FOX: another reminder
by "Marshall Emm" <mgemm@mtechnologies.com>
- 80) [24247] Re: NorCal 20 Status Report
by WD6BOR@aol.com
- 81) [24248] AR QRP Net results
by Robsparks@aol.com
- 82) [24249] Here FOXI FOXI!
by tom whalen <whalen@swcp.com>
- 83) [24250] FOX: SAM /KC5TJA
by Ed Loranger <we6w@qsl.net>
- 84) [24251] Ken Evans Special Guest at Dinner in Bay Area
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 85) [24252] Re: Smallest Transceiver???
by "Radman" <radman@best.com>
- 86) [24253] Praise in Public, Criticize in Private
by "James R. Duffey" <ji3m@maxwell.com>
- 87) [24254] 11-2-10 project status
by Steven Weber <kd1jv@moose.ncia.net>
- 88) [24255] Re: NorCal 20 Status Report
by Vic Rosenthal <rakefet@rakefet.com>
- 89) [24256] FS: GRC-109 Special Forces rig
by afpgreg@state.me.us (Paul V. Gregory)
- 90) [24257] Callbook Assistance
by "Ron Smith" <resmith666@uswest.net>

- 91) [24258] 11-2-10 ... where to buy CBs...
by "Radman" <radman@best.com>
- 92) [24259] RE: SSB QRP
by "Caitlyn M. Martin" <cait.martin@ibm.net>
- 93) [24260] Re: Elmer200: Lesson Number 2
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
- 94) [24261] miniR2 and R2 phase shifter
by Pierre Constantineau <pierre@cmpe.ubc.ca>
- 95) [24262] 11-2-10 ... CB & "Mr. Beer" ... Part 2
by "Radman" <radman@best.com>
- 96) [24263] RE: My daughter has a CALLSIGN!
by "Caitlyn M. Martin" <cait.martin@ibm.net>
- 97) [24264] RE: Teaching Ham Radio to Children
by "Caitlyn M. Martin" <cait.martin@ibm.net>
- 98) [24265] Re: Sweepstakes logging program
by Wayne Alexander <walexan@ipa.net>

Date: Wed, 04 Nov 1998 18:19:41 -0600
From: Bill Wyatt <bwyatt@onenet.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24168] Ok guys.....time out.
Message-ID: <3640EF1D.945E8261@onenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

To the group from a new guy.....

I am a new member of the QRP-L group. I joined this group at the urging of a friend and because I endorse QRP, building and fellowship among hams. When I first joined the group there were 50-60 messages a day in my mailbox, now there are that many each time I log on. Maybe this is the normal but, somehow I don't think so.

I want to be a part of fox hunting, building and the fellowship. While I'm not an educated person I do feel, I may, from time to time have something of interest to the group. I can only hope, should my questions not be properly worded or sufficiently researched, I not fall victim to the endless stream of online quibbling. Better known as; "Re-(what ever the subject of the day might be)".

I am far from the perfect communicator but, over the years I have learned a few things. The most important, nearly every e-mail program has something called draft. Before we send a poison pen message simply write till your heart is content but, instead of send do a simple <save as draft> and give yourself time to think. Then re-write it or simply delete it, at the very least re-read it before sending it. Usually a few hours or maybe a day will change the urgency of the scolding or finger pointing we were about to do.

By us singling out a person or perhaps to put it better, a persons question or thought as an example, we do very little to promote the goals of the group. We, in most cases, run the subject into the ground, hurt the feelings of the person whom asked the question or posed the thought and cause those that are new to the group to look for another source of the information they desire. On the subject of information, there are no dumb questions. Maybe some poorly worded ones or asked at the wrong time ones but, no question is a dumb question. They all exhibit ones desire to learn something that they did not know, to get something they do not have or know where to get.

There will always be those that would rather ask than spend half a day re-inventing the wheel, so what. Is it really that much trouble for the ones that know to send a private reply to that person and help him or her on their way. I can assure you, holding them before the group for criticism of their actions will not fix the problem nor will it make them feel welcome. So, can we simply get on with the hobby at hand. QRPing, fox hunting, and enjoying ham radio.

Thanks for listening, I hope this is taken in the spirit it is met and will not become the new thread of the day. Oh, yea this did spend some time in draft form before I hit the send button.

Bill, N5WO QRP-L #1756 (told you I was a new one)

--

Think for yourself, or someone else will think for
you.
Follow your dreams, or you'll spend your time and
effort
in the service of someone else's dream. Discipline
yourself,
or you'll eventually need to be disciplined by
others.

Date: Wed, 04 Nov 1998 19:18:22 -0500
From: VE3JC - John C <jbcumming@wwdc.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24169] Effective mail filter
Message-ID: <3640EECD.235E80BE@wwdc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Rather than filtering messages at the receiving end, I wonder if the
following tool might be more effective. I remember this from a print
that used to hang in my father's study. (Source: Rotary Clubs
international)

BEFORE HITTING "SEND", PASS YOUR MESSAGE THROUGH THIS STEEP-SKIRTED
FILTER:

"THE FOUR WAY TEST

Of the things we think, say or do [OR POST! :^)]

1. Is it the TRUTH?
2. Is it FAIR to all concerned?
3. Will it build GOODWILL and BETTER FRIENDSHIPS?
4. Will it be BENEFICIAL to all concerned?"

Just a suggestion. Back to QRP. By the way, my "thrill of the week"

was a two-way qrp bike mobile cw qso with Russell KB8U on 40 meters.
What a rush - two crazy individuals bicycle riding in MI/Ont in
November, communicating via hf qrp cw!

Vy 73/72, JC

Date: Wed, 04 Nov 1998 19:16:14 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [24170] Staying on the QRP topic
Message-ID: <3640EE4E.CC8CC05A@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Let me toss my two cents in here. One of the things that has attracted me to the whole QRP movement is the fact that most folks who participate in this aspect of the hobby tend to have a rather unique perspective on life in general. QRP folks, me included, just seem to be wired up a bit differently. When this unique view of life in general bleeds over into the QRP discussion, it is usually an enjoyable adjunct. The exception being when a non-QRP subject gets beaten to death. But then again, I tend to tire of QRP subjects that get beaten to death as well. I think if everybody steps back and takes a hard look at the subject you may see, as I think I do, that there is more to this QRP thing than playing with teeny radios. I guess this means I am for lively discussion amongst a group of people I personally hold in high regard for their radio practices and so much more.

Date: Wed, 04 Nov 1998 16:22:55 -0800
From: Bob Painter <turnkey@exo.com>
To: gheron@idt.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24171] Re: Homebrew Spectrum Analyzer for the Radio Amateur(Long)
Message-ID: <199811050022.QAA03413@ns1.snni.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

I am also working on the spectrum analyzer. Bought the Kanga boards a month ago. Decided to order the parts separately, partly to wean myself off of the normal kit convenience and also to supplement a bare junk box with some extra parts. For ease and savings, buying the parts

kits thru Kanga is a no-brainer. I've probably spent \$250 ~\$300 buying the parts myself. -- The extra money is because of smaller volume discounts, buying extra parts for myself, and lot's of separate shipping fees. - The minicircuits order itself was about \$70. The MAV-11 amplifiers are cheap but you have to buy at least 10 of the little beasties. Also bought another VCO at 100 Mhz - thinking that I might add a tracking generator (once I figure out what that is - grin).

Some of the challenges I've run into include connections between the modules - picked up a bunch of SMA connectors and cables at the swap meet at pacificon - but I think I should have selected a different part to screw into the aluminum Hammond boxes. The parts I got effectively look like a feed thru cap on the inside. The disadvantage to this, is that you do not have a nice 360 degree connection to the outer cable shield.

Also, have yet to decide what parts to use to build the power supply.

So, you can add KF6NKH to the list of SA builders.

I've been ignoring this project for a few weeks now, in favor of trying to get my first QSO on the air. The N/T+ fox should help once I get a time approved.

72, Bob KF6NKH

At 05:09 PM 11/4/98 -0500, George Heron wrote:

>I too received the spectrum analyzer parts and pcb's. Perhaps those of us
>doing this project can stay in touch, share implementation experiences and
>solutions, and report back occasionally to the qrp-l. This indeed is a very
>exciting project and will likely be of interest to others.

>

>So far it's N2APB and AE4GX. Others working on the project?

>

>73,

>--George Heron, N2APB

> n2apb@amsat.org in Sparta, NJ

>

Date: Wed, 4 Nov 1998 19:32:21 -0500

From: "George Heron" <gheron@idt.net>

To: "QRP-L" <qrp-l@Lehigh.EDU>, <kc5tja@topaz.axisinternet.com>

Subject: [24172] Re: QQ Availability and dues

Message-ID: <034a01be0853\$c515f190\$763984a9@herong.dialogic.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In answer to a recent request for QRP ARCI membership and QRP Quarterly subscription information ...

QRP ARCI membership provides the organization's publication "QRP Quarterly" four times a year. QQ issues usually hit the streets mid-month in January, April, July and October.

QRP ARCI annual membership and renewals are:

- \$15 (US), \$18 (Canada), \$20 (DX)
- check or M.O. in \$US funds, made payable to "QRP-ARCI"
- include name, full address, callsign, indication of new or renewal, e-mail address, phone numbers
- send to: QRP ARCI, 848 Valbrook Court, Lilburn, GA 30047

For DX membership:

- 13.50 UK pounds *only*, or VISA/MasterCard @ 14 UK pounds
- checks payable to "GQRP"
- send to:
Dick Pascoe, G0BPS,
Seaview House, Crete Road East,
Folkestone, Kent CT18 7EG UK

For a club information packet, write to:

G. Danny Gingell, K3TKS
3052 Fairland Rd
Silver Spring, MD 20904
K3TKS@abs.net

Change of address, and membership status questions go to:

Dave Johnson, WA4NID
2522 Alpine Rd
Durham, NC 27707
consult@apismarketing.com

Either Dave or I would be happy to answer any questions not covered by this information.

73,

--George Heron, N2APB
n2apb@amsat.org in Sparta, NJ

Date: Wed, 4 Nov 1998 19:50:04 -0800
From: "Scott A. Thomas" <n1st@ntplx.net>
To: "qrp-1@Lehigh. EDU" <qrp-1@Lehigh.EDU>
Subject: [24173] For Sale; 38 Special, HTX-100,PKRATT-232, RS Amps
Message-ID: <000101be086f\$5eef84a0\$45bdd5cc@8606278227.hs_master>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

- 1) 38 Special with power mod. Best offer.
- 2) 9 altoids containers for the cost of shipping via USPS.
- 3) Radio Shack 1 watt unbuilt ampifier kit. I don't remember what I paid, but best offer over \$4.99 plus shipping sounds reasonable. Shipping via USPS shouldn't add much cost to it.
- 4) PKRATT-232 (no pactor, no mailbox). I had lots of QRP fun doing AMTOR on this, and it is good at copying morse. Best Offer.
- 5) Radio Shack HTX-100 10 meter mobile. Best Offer over \$100.

Scott T.
N1ST

Date: Wed, 04 Nov 1998 19:04:46 -0600
From: Steve Gaiser <sgaiser@pclink.com>
To: qrp-1@lehigh.edu
Subject: [24174] Membership #??
Message-ID: <3.0.3.32.19981104190446.006de52c@pclink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I recently downloaded the user list for qrp-1 #'s and discovered that my call is listed with another user?? I have been unsuccessful in reaching anyone who operates this reflector to look into it.. Can anyone help me out with this..?

tnx es 73's

```

      /' ^ '\
     ( o o )
-----o000--( )--000o-----
      Steve Gaiser - N0SG
      Apple Valley, MN
      sgaiser@pclink.com
      .ooo0
      ( ) 0ooo.
-----\ (----( )-----
      \_) ) /
      (_/

```

<http://www.pclink.com/sgaiser>
 Updated 10-3-97

Date: Wed, 4 Nov 1998 20:25:16 -0500
 From: n2tpa@juno.com (Bill d Lazure)
 To: QRP-L@Lehigh.EDU
 Subject: [24175] N2TPA: Re: Sweepstakes Logging program
 Message-ID: <19981104.202550.7510.0.N2TPA@juno.com>

Claton and Folks,

I AM NOT flaming this message, but am pretty confused about a key concept of Contesting. For the last five or six years, I've participated in CW Sweeps. I was proud when I hit 100 contacts, and even prouder when I broke the 200 mark. I spend a lot of time trying to raise my code speed, striving for 100% perfect copy, and making myself the best operator I can be.

Last year I duped a few people who informed me of that fact even before the echo of my transmission had died down. I was truly shocked that these people had the time to copy my sig, check the computer, then Xmit back the dupe in that quick amount of time.

Now, I see this message which is essentially asking for a computer program that does EVERYTHING except turn the rig on!!

Aren't contests supposed to be a measure of one's technical ability and operating skills?

If you're using a computer to receive and decipher, log, check for dupes, call CQ, Answer a contact, and print (Or Xmit) your finished log, where does personal operating ability get involved?

Simply a point of confusion for me.

Bill
 W2EB
 "An analog man in a Digital world"

Claton Cadmus writes:

>I also have decided to take the CW SS plunge this year and need a good

>simple logging program for SS. I would very much like to hear some
>suggestions, DOS or Windows please. Especially interested in programs
>that
>can also send CQ's and exchange.
----- End forwarded message -----

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 4 Nov 1998 20:53:07 -0500
From: "Gene Hall" <evhall@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: "Fonya Hall" <wa4hhp@amsat.org>
Subject: [24176] Re: Homebrew Spectrum Analyzer for the Radio Amateur(Long)
Message-ID: <001201be085f\$0a1c6160\$51abbacd@#evhall>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I also received my Spectrum Analyzer kit from Kanga. In addition to the money saved by buying the parts kit from Bill, just the time saved from finding all the parts myself made it worthwhile.

Too much going on right now to start right away, so I'll probably be a few weeks behind the rest of you. Got two SMites, a Frequency Counter and a mini-R2 I need to build not to mention a Tick keyer for the SMite package...Lets see, two SMites on two different bands with one keyer in the same box...Why not, sound like fun.

Lets indeed keep the info flowing on the Analyzer progress.

72, Gene wa4hhp@amsat.org
-----Original Message-----
From: Bob Painter <turnkey@exo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Wednesday, November 04, 1998 7:38 PM
Subject: Re: Homebrew Spectrum Analyzer for the Radio Amateur(Long)

>Hi Gang,
>
>I am also working on the spectrum analyzer. Bought the Kanga boards

>a month ago. Decided to order the parts separately, partly to wean
>myself off of the normal kit convenience and also to supplement a bare
>junk box with some extra parts. For ease and savings, buying the parts
>kits thru Kanga is a no-brainer. I've probably spent \$250 ~\$300 buying
>the parts myself. -- The extra money is because of smaller volume
discounts,
>buying extra parts for myself, and lot's of separate shipping fees. - The
>minicircuits order itself was about \$70. The MAV-11 amplifiers are cheap
>but you have to buy at least 10 of the little beasties. Also bought
another
>VCO at 100 Mhz - thinking that I might add a tracking generator (once I
>figure out what that is - grin).
>
>Some of the challenges I've run into include connections between the
>modules - picked up a bunch of SMA connectors and cables at the
>swap meet at pacificon - but I think I should have selected a different
>part to screw into the aluminum Hammond boxes. The parts I got effectively
>look like a feed thru cap on the inside. The disadvantage to this, is that
>you do not have a nice 360 degree connection to the outer cable shield.
>
>Also, have yet to decide what parts to use to build the power supply.
>
>So, you can add KF6NKH to the list of SA builders.
>
>I've been ignoring this project for a few weeks now, in favor of trying
>to get my first QSO on the air. The N/T+ fox should help once I get
>a time approved.
>
>72, Bob KF6NKH
>
>At 05:09 PM 11/4/98 -0500, George Heron wrote:
>>I too received the spectrum analyzer parts and pcb's. Perhaps those of us
>>doing this project can stay in touch, share implementation experiences and
>>solutions, and report back occasionally to the qrp-l. This indeed is a
very
>>exciting project and will likely be of interest to others.
>>
>>So far it's N2APB and AE4GX. Others working on the project?
>>
>>73,
>>--George Heron, N2APB
>> n2apb@amsat.org in Sparta, NJ
>>
>
>

Date: Wed, 4 Nov 1998 20:54:02 EST
From: RangerSF5@aol.com
To: QRP-1@lehigh.edu
Subject: [24177] Small charger needed
Message-ID: <b421ceee.3641053a@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Guys/Gals,
I need a small charger that will give me 13-14 volts at 1 amp.
Looked all around today but everything is 12 volts.
If anyone has one laying not being used,*E* mail direct if you want to sell it
Thank You
Bob
WA2HOQ

Date: Thu, 05 Nov 1998 01:55:05 +0000
From: Peter Larsen <larsenp@cadvision.com>
To: w5usj@webwide.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24178] Re: origin of the term "HAMS"
Message-ID: <36410579.80B18847@cadvision.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All:

I had heard that it was because the CW was sent (by amateurs) in a
"Ham" fisted way.

All cute stories, most don't hold water.

73 es have fun
Peter
VE6YC D021wc

Date: Wed, 4 Nov 1998 18:01:52 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Bill d Lazure <n2tpa@juno.com>

Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [24179] Re: N2TPA: Re: Sweepstakes Logging program
Message-ID: <Pine.SOL.3.96.981104173904.11524D-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 4 Nov 1998, Bill d Lazure wrote:

> Aren't contests supposed to be a measure of one's technical ability
> and operating skills?

Not sure about the technical side but it sure is for the operating side.

> If you're using a computer to receive and decipher, log, check for dupes,
> call CQ, Answer a contact, and print (Or Xmit) your finished log, where
> does personal operating ability get involved?

I don't know of any programs that can do all that! At least none outside of the experimental/play stages! And none that I have heard of are worth even playing with!

But most of the programs do the logging, duping, send the exchange and calling CQ.

Sending the exchange and calling CQ are things that keyers have done for years so those should come off the table.... :-)

Logging and duping....

One of the aims of MOST contest sponsors is to check each contact on every log. In the days before computer logs that just couldn't be done. But now it is! At least by more and more.

The skills have shifted from being able to use a pen/paper and doing it well enough to read it later to being able to type without errors. Being able to jump around in the program to fix errors "on the fly". Being able to figure out how to best set up the program/computer/keying interface lines/RS232 freq data lines and etc.

Making filters to get rid of all the computer noise in the radio. Keeping all the RF out of the computer. Both of these are very hard to do at times!

Duping is nicer with a computer....but not without it's own form of "gotcha"! What to do when the computer "locks" up

because it thinks you are trying to log a dupe but the station on the other end doesn't think it a dupe.... notes on the side to fix this one later!

So using the computer real time in a contest isn't a brain dead thing! They are just another tool. I remember when memory keyers first came out. Some people thought they were a form of cheating! Now we don't think any thing about them!

Printing out the log? You bet! No longer do I have to spend a good week going over my log and copying it onto clean forms, trying to tell if I wrote a "U" or a "V"!

And I can feel for the poor folks who have to score these contests! Having computer logs is great for them!

> Simply a point of confusion for me.

It was me too until I tried it. Going on to my 3rd SS with computer logging and I still am not very good at it!

It reminds me a lot of going from a bug to a keyer. Sure, it's nice to push the button and write in the log, but first you have to learn to use the keyer! For some of us that was much easier said than done!

And for those who were at PacCom last month and watched Lee, K7QD sending with his left hand..... he is a fellow who taught himself to send left handed just so he could write and log at the same time. The reason was to help him beat Rod, W7ZRC in SS! (Rod was there with Lee).

I write left handed and send right handed but it just came out that way for me. People used to watch Lee and I on FD and just shake their heads!

But I never want to have to do a big contest like that again! NEVER!

And for those who are compeating against each other, they all have computers with logging software. So it's an even playing field.

My skills are not good enough to giving them a run for their money if they let me use a computer and they used

a pen/paper! :-)

Hope this help you understand the role of computers in
contesting.

Hope to work you in SS this weekend,

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Wed, 4 Nov 1998 21:24:53 -0500
From: "david r" <elbc@pivot.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [24180] Fw: ARLB095 ARRL Petitions FCC for LF Allocations
Message-ID: <000c01be0863\$79ccc500\$6f3d62ce@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

thought the following might be of interest to all

>-----Original Message-----
>From: W1AW <W1AW@arrl.org>
>To: "undisclosed-recipients:;@ma.ultranet.com"
><"undisclosed-recipients:;@ma.ultranet.com">
>Date: Wednesday, November 04, 1998 12:29 PM
>Subject: ARLB095 ARRL Petitions FCC for LF Allocations
>
>
>>SB QST @ ARL \$ARLB095
>>ARLB095 ARRL Petitions FCC for LF Allocations
>>
>>ZCZC AG95
>>QST de W1AW
>>ARRL Bulletin 95 ARLB095
>>>From ARRL Headquarters
>>Newington CT November 3, 1998

>>To all radio amateurs
>>
>>SB QST ARL ARLB095
>>ARLB095 ARRL Petitions FCC for LF Allocations
>>
>>The ARRL has petitioned the FCC to create two low-frequency Amateur
>>Radio allocations at 136 kHz and at 160 kHz. 'These allocations
>>will permit experimentation with equipment, antennas, and
>>propagation phenomena in a small segment of the radio spectrum that
>>has not been available to the Amateur Service for many years,' the
>>League's petition declared. The petition was filed with the FCC
>>October 22.
>>
>>Specifically, the League has proposed permitting CW, SSB, RTTY/data,
>>and image emissions for amateurs in a 2.1-kHz 'sliver band' from
>>135.7 to 137.8 kHz and in a 30-kHz segment from 160 to 190 kHz. The
>>135.7 to 137.8 kHz band adheres to the European Conference of Postal
>>and Telecommunications Administrations (CEPT) band plan.
>>
>>The ARRL has proposed allowing a transmitter output in both LF
>>segments of 200 W PEP, but in no case greater than 2 W EIRP
>>(effective isotropic radiated power). The League's petition points
>>out that poor antenna efficiencies and ground-loss characteristics
>>likely would keep EIRPs at less than 1 W. The two bands would be
>>available to General and higher licensees.
>>
>>Unlicensed experimenters--some of them hams--currently operate on LF
>>in the US under the FCC's Part 15 rules. These limit transmitter
>>input power to 1 W and impose substantial restrictions on the size
>>of the antenna. The proposed allocations 'will provide the only
>>low-frequency allocation for amateur use and will accommodate more
>>flexible experimentation than is permitted under current Part 15
>>regulations,' the League's filing said.
>>
>>Hams would be secondary to the Fixed and Maritime Mobile services in
>>the 136-kHz allocation, and secondary to the Fixed Service in the
>>160-190 kHz band. The League said its engineering surveys suggest
>>that hams could operate in the two segments without causing problems
>>to power line carrier (PLC) systems already active in that vicinity
>>or to government assignments. Unallocated, Part 15 PLC systems are
>>used by electric utilities to send control signals, data and voice.
>>
>>Calculations included with the League's filing demonstrate how
>>inefficient even relatively large radiators can be on LF. For
>>example, at 200 W TPO (transmitter power output) and a 200 foot
>>vertical radiator, efficiency is only in the range of 1%, yielding
>>up to 2 W EIRP. A more practical setup--200 W TPO into a 100-foot
>>vertical radiator (efficiency of 0.2%) would yield an EIRP of

>>between 10 and 40 mW.
>>
>>Several countries throughout the world already enjoy LF allocations.
>>These include New Zealand, Great Britain, the Republic of Ireland,
>>and several European nations.
>>
>>A copy of the petition is available on ARRLWeb, <http://www.arrl.org>.
>>NNNN
>>/EX
>>
>

Date: Wed, 04 Nov 1998 21:28:53 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: njqrp <njqrp@njqrp.org>, "qrp-canada@lists.gpfn.sk.ca" <qrp-canada@lists.gpfn.sk.ca>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [24181] 40 metres alive and well tonight....
Message-ID: <36410D65.3750C000@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Having a ball on 40 metres tonite.Using my Oak Hills research Rig
running 3 watts I worked.
OH1MAU @0204Z Both 559 Freq 7001(still there)
EA7FLE @0011Z Both 339 Freq 7015
And listening and trying to work UX0ZZ On 7003 now at 0227Z.
My antenna is a 40 m full wave loop in the vertical polarization at 25
feet.
Good luck and good dx.
Fred VE3FAL
QRP Canada #11
QRP1 #1463
NJ QRP #140

Date: Wed, 04 Nov 1998 20:30:46 -0600
From: Wayne Alexander <walexan@ipa.net>
To: qrp-l@lehigh.edu
Subject: [24182] SS contest program
Message-ID: <199811050231.UAA29997@ns3.ipa.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Take a look at this one. It is free to download. I am thinking about using it this year. Let me know what you think. Thanks

<<http://members.aol.com/snkdavis/page1.html>><http://members.aol.com/snkdavis/page1.html>

73,
KB0PTE
Wayne
FISTS # 4907
QRP-L # 1058

Date: Wed, 4 Nov 1998 21:35:45 EST
From: Macstein@aol.com
To: qrp-l@Lehigh.edu
Subject: [24183] FOX: N/T out of the shoot FB!
Message-ID: <695efbc7.36410f01@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Nice Job Brian!!!! You are scooting right along! Lot's of QRM trying to figure out what you were up to. You were 559 here at 0200z and thanks for the "599" (HA!) My noise was about S7 -- TS Mitch heading back toward FL. I heard lots of hunters yelling at you, can't wait to see your log!

You had a nice steady fist behind that wonderful NorCal 40a tone! (I was also using a NC40a at 5 w to your 2 w.) I sure hope the storm doesn't hide Sam's signal later tonight. I'll be bleary eyed at work tomorrow! Congrats to Brian 1998 N/T Fox #1!

-MAC-
KF4KSM # 704

Date: Wed, 4 Nov 1998 21:38:36 -0500
From: n2tpa@juno.com (Bill d Lazure)
To: QRP-L@Lehigh.EDU
Subject: [24184] RE: Logging Program-An apology
Message-ID: <19981104.213838.7510.3.N2TPA@juno.com>

Folks,

I owe Claton Cadmus an apology. I should not have quoted his simple question when I asked mine. It left the impression that I was accusing him of cheating. I had no intention of that.

Claton, my heartfelt apology. I am sorry.

Bill Lazure
W2EB
Syracuse, NY

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 04 Nov 1998 21:53:45 -0800
From: JFD / WA8GHZ /5 <jdougher@wt.net>
To: ham_QRP-1 <qrp-1@lehigh.edu>
Subject: [24185] FOX: TU BRIAN / KB9BVN
Message-ID: <36413D69.39B9@wt.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Many thanks for very clean QSO, Brian. You copied it all on the first exchange - not an easy thing to do. Congrats, and thank you Mister Fox. QSL in the mail.

72

WA8GHZ/5 Jack Houston

Date: Wed, 04 Nov 1998 19:56:50 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-1@lehigh.edu
Subject: [24186] More bug stories
Message-ID: <364113F2.4FB63206@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

I posted several good bug stories to a web page about a year ago. I have

not updated it or added anything to the web page for sometime. I would like to add more stories. If you are trying to learn a bug, or use a bug, or restore a bug. If you have gotten a bug from an estate sale, know the history of your bug, etc. I would love to hear from you and get some more stories. The URL of the bug web page is at the end of this message. I look forward to getting any responses!

--

Jess N0TFI <><

<http://www.concentric.net/~jessqrp> Personal Home page

<http://qsl.net/n0tfi/bug.html> Bug Stories

Date: Wed, 4 Nov 1998 21:15:29 -0600
From: "Rud Merriam" <rmerriam@csi.com>
To: <kory@avatar.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [24187] Re: Swimming pool as an earth ground
Message-ID: <02ab01be086a\$abe32be0\$d661afce@sisyphus>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Look around the pool equipment - pump, heater, etc - and you probably will find a grounding rod. No assurance that it is a good ground. All my pool equipment is tied together with grounding straps and a copper rod in the ground.

Rud Merriam KD5DTV
rmerriam@csi.com

-----Original Message-----

From: Kory Hamzeh <kory@avatar.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Wednesday, November 04, 1998 1:55 PM
Subject: Swimming pool as an earth ground

>

>I may be operating portable soon and at that location, I will not have a
>ground
>rod. Can I drop a piece of wire in a swimming pool and use it as an earth
>ground?
>

>Thanks,
>Kory
>AC6RN
>
>

Date: Wed, 4 Nov 1998 20:16:20 -0700
From: "David Ek" <ekdave@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [24188] Free SS Logger
Message-ID: <000501be086a\$ab36bf40\$c5c22499@davidek>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

I ran across a free Win95/NT app for logging SS. Here's the URL:

<http://members.aol.com/snkdavis/page1.html>

I've downloaded it and played with it a bit and it really looks slick.
Doesn't have a built-in keyer but has lots of other nice features.

72 de Dave AB0GO

Date: Wed, 4 Nov 1998 21:20:06 -0600
From: "Rud Merriam" <rmerriam@csi.com>
To: <wd3p@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [24189] Re: KC5TJA <kc5tja@topaz.axisinternet.com>: KC7Z?? on or around
7.127MHz
Message-ID: <02d601be086b\$61f19de0\$d661afce@sisyphus>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I actually had a novice license back in 1975 but never got enough on air time before it expired - no renewal then. I can recall even being in the late 20s getting key shy when I first attempted a QSO. Fortunately I hit a nice ham in Bahamas who worked me through that first QSO.

Rud Merriam KD5DTV
rmerriam@csi.com

-----Original Message-----

From: Larry Cahoon <wd3p@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Wednesday, November 04, 1998 3:54 PM
Subject: KC5TJA <kc5tja@topaz.axisinternet.com>: KC7Z?? on or around 7.127MHz

>----- Begin forwarded message -----

>From: KC5TJA <kc5tja@topaz.axisinternet.com>

>

>>I heard a KC7Z?? station while I was trying to call CQ around 7127.

>When

>>I heard the other CQ (very weak signal), I tried calling back. *POOF*

>>The operator either got scared, or my receiver somehow got destroyed --

>

>>Has this ever happened to any of you folks? Is this mystical person one

>

>

>I can picture my 10 yr old when he first got his ticket, or even now a
>year later, doing just that. Just to get him ready the first time he
>got on the air sending CQ I got on the second rig into a dummy load and
>answered him. He just about jumped out of the chair when he heard his
>call. What it did was give him a good laugh and he was better prepared
>when someone did come back to his CQ. For the first several QSO's I sat
>over his shoulder helping him, encouraging him, filling in misses,
>getting him to ask for repeats, just basically teaching him the ropes of
>a CW QSO. Call it key fright, they don't quite copy you and aren't quite
>sure what to do - the result is silence.

>

>Have fun, 72 de Larry....WD3P

>

><http://www.erols.com/lejek/>

>WAS with 18.6 Watts total power out.

>

>

>-----
>You don't need to buy Internet access to use free Internet e-mail.

>Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>

>or call Juno at (800) 654-JUNO [654-5866]

>

Date: Wed, 04 Nov 98 21:28:48 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-1@lehigh.edu>
Subject: [24190] Vanity calls
Message-ID: <199811050326.WAA42458@nss4.cc.Lehigh.EDU>

Gang,

Let's do the following in order to lighten the load on me and Jim Eshleman.

There are two lists associated with this group. The group that receives the email posted to qrp-1 and the list of unique qrp-1 numbers used for contesting etc.

To get the recipients list, send email to LISTSERV@LEHIGH.EDU (not to QRP-L) and in the body put

RECIPIENTS QRP-L

To get the list of numbers, again to LISTSERV@LEHIGH.EDU send email but put

GET QRP-L/MISC MEMBER_NUMBERS.TXT

You won't be in the last group unless you had previously sent

RUN QRP-L X GETNR your_callsign

If you check the lists and find that your call is wrong, send me email with one liner

NAME #_if_you_have_one OLD_CALL NEW_CALL

and on Friday and this weekend sometime we will take care of it (not during SS) :-)

If you miss this window of opportunity, we'll do it again next month and every month thereafter during the first week to get those that upgrade and get new calls.

Hopefully this will cut down on errors, omissions, and get the list in order.

BTW, your QRP-L number is good for life, so no need to get another one unless you think a prime number is coming up. ;-)

dit dit

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Wed, 04 Nov 98 21:43:21 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-l@lehigh.edu>
Subject: [24191] SS preparation
Message-ID: <199811050342.WAA11098@nss4.cc.Lehigh.EDU>

Gang,

OK, it's your first time to try the November ARRL CW SS contest.
You are nervous to the point of almost wanting to give it up. Don't.

Here is some helpful hints.

Get SuperMorse, Morse Academy, or MFJ Tutor. Set 'em up to do random two digit numbers at 5 to 10 wpm faster than you can copy right this minute. This will help you on the CK in the exchange which is the last two digits of the year the guy/girl was first licensed.

Helpful hint #2. Memorize the sections and have the programs send them to you in random order.

Helpful hint #3. Have program send four digit numbers, the sequence number you gotta copy. Starts low and increases during the contest for most stations.

Helpful hint #4. Get old QSTs and memorize some calls. You'll hear them during the contest almost every year. Someone mentioned the dup situation, i.e. working a station for a second or third time. One thing that I find during this test is that the human mind will do "partial call recognition". You'll hear only the first three or so characters of

the call and immediately hit the dial and move on 'cuz you already worked 'em. Have MFJ tutor or program send you random calls. Again at a speed faster than you can now copy. RUFZ is a great program for this. For those of you that have seen the high scores remember this little helpful bit - those guys/girls missed have the calls they heard. Been there done that.

Only worry about the computer program for logging if you are serious and want to work more than a few hours. Using a program helps keep you from making mistakes. It takes no less skill as an operator to copy calls etc. The program helps you from getting tired sooner and the dup checking facility is a must for doing well during the test. After 700 calls worked you can't possibly remember and the paper check sheet will kill you on time and time is money and time is points....

And the number one rule? Antenna, antenna, antenna is #1. Also a good front end and selectivity on the receiver will help and use the AGC 'cuz the signals will be strong. I'm a firm believer that during SS the RF from all the QRO types helps the ionosphere. :-)

Tell everyone that you know that Sunday night you will be a real Zombie and brain dead. All you'll be able to understand is Morse.

FYI es see you during the test

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Wed, 4 Nov 1998 21:52:21 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [24192] FOX: Team scores
Message-ID: <Pine.LNX.3.95.981104213950.32514A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...Team scores after Hunt #9 - AB5UA -

The 40 mtr Fox Hunt Team Scores

...the Kentucky Porch Houndz - 6.500 - hounds -> KA80KH
...the Houston Hounds - 5.650 - hound -> K5ZTY
...the Underdogs - 5.581 - hounds -> N4ROA,KI0II,AB7CE
"CLEAN SWEEP"
...the Vibro-Fox Finders - 5.550 - hounds -> WE6W,N7MFB,KU7Y,K2VCO
...the Fox Nabbers - 4.572 - hounds -> K0EVZ - Doc from North Dakota!
...the Brass Pounders - 4.500 - hound -> KB7MBI
...the Texas Tarantulas - 3.500 - hound -> W5HNS
...the Northern Lights - 3.164 - hounds -> VE6EWM,VE5RC,VE2KN
...the Swords - 2.997 - hounds -> N8VAR, N8VZU
...the Team Apathy - 1.665 - hounds -> K7TQ
...the Jersey Diddles - 1.366 - these hounds are very hungry.

Date: Thu, 05 Nov 1998 04:09:00 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [24193] Re: Surviving QRP-L
Message-ID: <364524a8.20551693@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

On Wed, 4 Nov 1998 15:27:44 -0800 (PST), KC5TJA
<kc5tja@topaz.axisinternet.com> wrote:

>> In my opinion, the guys who sit on 80 meters and have made thousands =
of
>> contacts with only 5 stations over the last 20 years are NOT real =
hams. They
>> just have the world's most expensive party line telephone.
>
>But by your own definition, he would qualify as a 'real ham,' as he's
>using ham radio for the purposes of wireless communications.

Samuel is quite right to catch this! Thanks for the correction ...

--
72 es 73 de Marty, KM7W

Memphis, Tennessee <http://home.earthlink.net/~mwattcpa>
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM55

Date: Wed, 4 Nov 1998 23:11:36 -0500 (EST)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: VE3JC - John C <jbcumming@wwdc.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24194] QRP-L Posting Guideline
Message-ID: <Pine.OSF.3.95.981104225335.15134D-1000000@vela.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 4 Nov 1998, VE3JC - John C wrote:

> Rather than filtering messages at the receiving end, I wonder if the
> following tool might be more effective.

Naw... It's all been done... lemme look see here into the ol' W8KC
(formerly WB8ZJL) Archives... Ah Ha!!! Sheeze... Blow the dust off of
it... four years old! Here we go...

Hey here's a free tip from ol' ZjL. NEXT time any of US (me included) gets the bright idea to "share" something with QRP-L, run through this handy algorithm:

ZjL's To Post or Not to Post

[AN IDEA!]

|

<Is it QRP related?> -> (POST IT!)

N

<Are you K5F0?> -> (You are God, POST IT!)

N

<Are you a member of the R0o2SC799?> -> (Post, God has smiled on you)

N

<Have you posted GOOD STUFF before, and this is a once-in-a-while,
"Aw what the heck, they'll get over it?"> -> (Post, humbly)

N

<Can the post be saved by tacking on an ObQRP?> -> (Go post, and sin no more)

N

Ok, this post is sooooo lame, not even an ObQRP can save you from becoming net-cop, flame-bait, it must have SOMETHING to do with:

Limericks

Switching Power Supplies

Q-Dope

Dayton WX

Mail Order Brides

Your new Website

Pro-Code

No-Code

Your (qrp newsletter) has not arrived

A new PC virus

An Urban Legend

MAKE MONEY FAST!!!

How do I unsubscribe

etc. etc. etc.

Aw, what the hell, post it. We love you man. And you better be ready to buy us all a Bud Light at FDiM.

Bring on the Foxhunt!

73! =paul= wb8zjl, for a few weeks

See??? Anyone else remember those fabulous and unpopular threads from bygone days?!?!?! :-)

73! =paul= W8KC (member of the R0o2SC799, too!)
Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Sat, 24 Oct 1998 09:25:34 -0500
From: brian <brian@iquest.net>
To: qrp-l@lehigh.edu
Cc: Doc Lindsey <70511.3041@compuserve.com>
Subject: [24195] WOW!!! First time FOX FREAKS OUT
Message-ID: <3631E35E.475E@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I can not believe how much fun it was being a fox. This is so cool
I freaked out during the first half hour, I never heard so many
people calling me in my life. It's scary. This is the biggest rush
I've ever had, or at least in a long long time. Wow.
I just can't describe it. Totally terrifying. I won't be able to
sleep!

Here's my log:

Station	Name	Time	RST	STATE	QRP-L#
KF4KSM	Mac	02:03	599	FL	704
VE5RC	Bruce	02:10	358	SK	886 <---- First SK contact ever
N7MFB	Bill	02:17	229	WA	715 <---- New State!!
K2SJB	Dave	02:30	459	NY	757 <---- New State!!
KU4QO	Mike	02:30	599	FL	1244
KA5T	Larry	02:36	599	TX	89
WA8GHZ	Jack	02:40	559	TX	619
N1TP	Tom	02:46	559	FL	1317
AB0GO	Dave	02:50	459	CO	785
KU7Y	Ron	02:53	239	NB	17 <---- New State!!
K5ZTY	Bill	02:58	599	TX	473
KC1FB	Jim	03:34	238	CT	29 <---- New State!!
N5WL	Bart	03:44	559	OK	994 <--- New State!!
KI0II	Ron	03:56	569	CO	928

More fun than a human should be allowed.

QRM was horrible at 03:00 hours. It pretty much wasted the whole novice portion of the band here. I stepped out of the head set from 03:00 to about 03:20 to calm down and get a cold diet pepsi. From 02:00 to 03:00 I stayed at 7.123 or so. Moved all over from 03:20 to 04:00 and found those last three at about 7.125 or so.

I had special FOX QSL cards made. They'll be in the mail by the end of the week. I;d appreciate a card from you all. Or if you're in 4 land....all y'all.

Date: Wed, 04 Nov 1998 23:56:44
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [24196] Tayloe mixer, Now an Rx
Message-ID: <3.0.3.16.19981104235644.26d744a0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy ,

While some of you were howling at the moon, I added a 40M BPF, grounded base preamp and CW audio BPF to my Tayloe mixer board. Now sounding more like a reciever should. It was somewhat lacking in over all gain before with just 40 dB of audio gain (plus the boom box), now I can hear atmospheric and keep the volume well down from full bore!

I was thinking of adding an RF preamp for various reasons, and after reading the section on DC Rx's in the Handbook, was convinced it was a good trade off to make. For one thing, now it will be easier to add AGC.

Think the next thing we'll do is try a Switched Capacitor Audio Filter (SCAF) band pass filter. Been wanting to try one and this is perfect incentive :-). That and one of Ed's patent pending "Razer Tone" (tm) CW speakers [Ed, you can have that name if you want] would be a wonder to behold.

Someday I might have to put it all in a box too!

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Thu, 5 Nov 1998 01:07:53 EST
From: ARDUJENSKI@aol.com
To: qrp-1@Lehigh.EDU, nwq-1@scn.org
Subject: [24197] COUNTERPOISE and VELOCITY FACTOR
Message-ID: <3bc76af.364140b9@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I was recently corrected for using the VELOCITY FACTOR in antenna calculations. It was pointed out that it only applies to feedlines. In July 1998 CQ an article on ALL BAND COUNTERPOISE uses VF for the counterpoise and an all band antenna. Is the article in error or am I missing some subtle distinction?

Thanks...Alan KB7MBI

Date: Wed, 4 Nov 1998 23:26:09 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@lehigh.edu
Subject: [24198] Zombie Shuffle Update
Message-ID: <Pine.SOL.3.91.981104230712.14377C-1000000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Fellow Zombies and witchesses,
I am astonished that I have so far received 49 logs via email for the Zombie Shuffle. We have our local hamfest here this weekend, but somewhere in there, I hope to get the preliminary results keyed in and posted to qrp-1. I am also encouraged to receive several logs with only 1,2 and 3 contacts, all the way up the grand thumper so far of 36 contacts by N7MFB, Bill "The Swamp Thing" Todd in WA. Quite a few in the 20's, while others just couldn't seem to break the magic "13" number. For the next one, I'll probably make that bonus point to read "for 13 qso's OR MORE" to help break that jinx! Our two honorary and most esteemed witchesses so far to submit logs are Becky KF6GUH and Jan N0QT, with Ron KU7Y trying to sneak in by claiming he wore a dress (didn't work). And BOTH Elvis'.

Speaking of the next one ... most comments received suggested April 1st (or April 2nd, since that's a friday) over April 15th, since many of us will be quite busy with other matters on April 15th (and yes, I'm usually one of them). And of course next Halloween for sure.

Thanks to all who participated, and since the bands could likely NOT be much worse, they'd almost have to be better next time. I'll be posting the first cut of results shortly.

72, Paul NA5N
Zombie #004

Date: Wed, 4 Nov 1998 22:29:47 -0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: <kory@avatar.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [24199] Re: Swimming pool as an earth ground
Message-ID: <000601be0889\$df4f23c0\$5be9b094@t7w6w7>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Maybe adding salt to the water might help ... may not be all that popular though!

.....
Frank G3YCC
GQRP Club 042
(g3ycc@g3ycc.prestel.co.uk)
QRP Web Site: <http://www.homeusers.prestel.co.uk/g3ycc/index.html>

Date: Wed, 4 Nov 1998 23:07:59 -0800 (PST)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: 70511.3041@compuserve.com
Cc: qrp-l@lehigh.edu
Subject: [24200] FOX: Fox/2 Log
Message-ID: <Pine.LNX.3.96.981104225833.23861F-1000000@amethyst.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Boy, not much to report here... :(

I managed to give a pelt to one, and ONLY one, ham on this list, and that's only because he lives in Oceanside, like I do. *grin*

Here's the log:

CALL NAME RST QRP-L# Freq

=====

N6VZ GARY 599 919 7122 *see note

=====

*note -- because I do not have a frequency counter hooked to my rig,
and because I calibrated it off o fanother radio with an analog
display, I cannot garuntee the accuracy or precision of the measured
frequency.

On 7122 or so, I managed to tickle another operator, but no useful
communications could possibly come of it on my end. It was N1TP, also
from this list, in Florida. However, where I live, his signal was
horribly bad. It would fade in booming loud for a total of five seconds,
then fade to obscurity in almost no time flat. It'd stay that way, just
--barely-- audible, until a few minutes would pass, then the cycle would
repeat. I originally grabbed his call as CN1TPZ, thinking it could be
some form of DX (Imagine that!), but I later grabbed the call as N1TPZ.
It wasn't until I got an e-mail from him that I later found, it was a
potential hound. And when he informed me of a malicious ham in the
vicinity of his frequency, well, that easily explains the malformed
callsigns. :(

N1TP, in case you didn't hear me, I rated your signal as 209. I apologize
for not giving higher numbers, but I *just* could not hear a dit or a dah
from you most of the time... :(And for the life of me, I knew you were
desperately trying to send your QRP-L number, but again, I just couldn't
grab it.

All in all, this foxhunt proves that the sole source of the problem is in
the antenna, I think. Right now, the only way to get it to get a 1:1 swr
on my antenna is to make it vertical -- throw half the antenna on the
roof, and the rest droops to the ground. But it worked for a local ham,
Gary, who also had a vertical. *grin*

My next project is to see if I can string that dang thing horizontally
somehow, and still maintain the 1:1 match on it.

=====

KC5TJA/6		- TEAM DOLPHIN -
DM13		Samuel A. Falvo II
QRP-L #1447		http://www.dolphin.openprojects.net
Oceanside, CA		

Date: Wed, 4 Nov 1998 23:10:26 -0800

From: "Bill Todd" <bill@willapabay.org>
To: <nwq-1@scn.org>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [24201] Avil for QSO 28.060?
Message-ID: <016d01be088b\$5f484240\$205233d1@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I'll try the ten meter QRP thing again tomorrow mid-morning from 9:00 AM Pacific to 11 AM PST. Ten meters has been pretty cooperative lately, so I hope that tomorrow morning will find 10 meters in good shape.

I will be beaming towards the East Coast, so if you want to work a really "rare" ha ha state, Washington can be yours.

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Wed, 4 Nov 1998 23:30:18 -0800
From: "Bill Todd" <bill@willapabay.org>
To: <we6w@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24202] Re: Resonant Speaker project and Patents.
Message-ID: <01b501be088e\$25466060\$205233d1@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Ed -

Here's a thought that came to me from a friend of mine who writes music.

Mail a set of drawings, Certified mail, to yourself, and or, your attorney. Don't open it and don't have your attorney open his/her copy. Be sure to store the letters in a safe place.

My music writing friend has used this technique of sending music scores and a magnetic tape of his music to himself, as a cheap way of protecting himself. I do not know if something like this would hold up in court...but

it is at least SOME level of protection.

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Thu, 5 Nov 1998 02:50:26 EST
From: N2qce@aol.com
To: qrp-l@lehigh.edu, bnlarc-l@bnl.gov, liqrp-l@waterw.com
Subject: [24203] 11/5/98 28.8 MHz 1400 hrs UTC
Message-ID: <695fcedd.364158c2@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I'll be checking into 28.8 MHz throughout the day on 11/5/98 from about 1400 hrs UTC on. Will work SLOW A1A or J3E. Looking for new states and 10-10 numbers...

--
John M. Evans
n2qce@aol.com
QRP-L # 597 10-10 # 61769

Date: Thu, 5 Nov 1998 03:29:21 -0500 (EST)
From: Bob Patten <n4bp@bc.seflin.org>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [24204] Shareware Contest Logger Available
Message-ID: <Pine.3.89.9811050335.A22161-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

There has been a lot of discussion lately about the use of computer contest loggers. Personally, I feel that you still need all the skill you can muster when using computer logging, but it increases your efficiency dramatically. If you haven't yet tried logging a contest with your computer, at least give it a try. If you don't like it, or feel that it gives you an unfair advantage, simply stop using it. To make it easier for you to experiment, I have put the shareware version of CT on my web page. It is fully functional, but is fairly old (1991, I think). If you feel ambitious, the doc file gives instructions for interfacing your com

port to the keyed line on your transmitter. With the cable connected, you can program messages to be sent by your function keys to the keyed line. The URL for my web page is in the sig line below. DL50BZ has been having intermittent problems with his server on which my web page resides, so if you can't connect, try again later. Have fun.

73,

Bob Patten, N4BP (0 0) Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org

Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>

Brass Pounder BBS: (954) 472-7715

Date: Thu, 05 Nov 1998 00:59:06 -0800
From: Dave Fifield <fifield@pacbell.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [24205] Re: Homebrew Spectrum Analyzer for the Radio Amateur
Message-ID: <364168DA.47D7@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am planning to build my own version. I hope to have a larger frequency span range, tighter filter and more control over the sweep than in the original article (calibrated somehow....DDS controlling wide-range PLL'ed VCO's??? we'll see...)

I have obtained a couple of the Analog Devices log amps that are mentioned in the original article. Their use requires a redesigned front end. When I get done, if no one else beats me to it, I'll publish it somewhere (maybe just on the www somewhere).

I have a couple of old HP 'scopes. One is an analog storage version. I plan to make a set of plug-ins that replace the y amps and timebase modules (or maybe just heavily modify them, with a new front panel). Thus I will have a custom built spectrum analyzer.

As soon as you have any input or tidbits, let us all know, and let the authors know too. They have a website up already

for tips, hints and kinks.

Later,
Dave Fifield, AD6AY

Date: Thu, 05 Nov 1998 07:10:56 -0500
From: VE3JC - John C <jbcumming@wwdc.com>
To: "Paul R. Valko" <prvalko@oakland.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24206] Re: QRP-L Posting Guideline
Message-ID: <364195D0.43BD1C66@wwdc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Paul R. Valko wrote:

>
> ZjL's To Post or Not to Post...
>

You're right, Paul. Your algorithm brings back lots of memories (and the true spirit of the list, which includes a small measure of a "sense of humour")

BTW, thanks for chasing the foxii out of Michigan - they're a lot easier to get "in the sights" when you don't have to use a macro lens!

73/72, JC

Date: Thu, 5 Nov 1998 07:18:36 -0500
From: "tom palmer" <n1tp@worldnet.att.net>
To: <kc5tja@topaz.axisinternet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24207] Re: Fox/2 Log
Message-ID: <001801be08b6\$c1a2e1e0\$8a984d0c@tom-palmer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi, everyone: Sam needs only a better antenna. His 1.4 watt signal was 339 in Naples, Florida, last night. N1TP's rig is a Kenwood TS-450 and G5RV - noting exceptional. Contrary to Sam's note of Tuesday, Nov. 3, his CW is not "abhorrent." He has a darn fist. Too bad Sam could read my 5 watt signal better then he was able to. I hope to have a QSO with Sam when conditions allow. Sam, thanks for trying to pick my signal out of the air. N1TP, Tom, in (usually) beautiful, tropical, Naples, FL. - but not right now. The WX is cool and MUCH windier than during hurricane Georges.

-----Original Message-----

From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, November 05, 1998 2:16 AM
Subject: FOX: Fox/2 Log

>
>Boy, not much to report here... :(
>
>I managed to give a pelt to one, and ONLY one, ham on this list, and
>that's only because he lives in Oceanside, like I do. *grin*
>
>Here's the log:
>
>CALL NAME RST QRP-L# Freq
>=====

>N6VZ GARY 599 919 7122 *see note
>=====

>*note -- because I do not have a frequency counter hooked to my rig,
> and because I calibrated it off o fanother radio with an analog
> display, I cannot garuntee the accuracy or precision of the measured
> frequency.
>
>On 7122 or so, I managed to tickle another operator, but no useful
>communications could possibly come of it on my end. It was N1TP, also
>from this list, in Florida. However, where I live, his signal was
>horribly bad. It would fade in booming loud for a total of five seconds,
>then fade to obscurity in almost no time flat. It'd stay that way, just
>--barely-- audible, until a few minutes would pass, then the cycle would
>repeat. I originally grabbed his call as CN1TPZ, thinking it could be
>some form of DX (Imagine that!), but I later grabbed the call as N1TPZ.
>It wasn't until I got an e-mail from him that I later found, it was a
>potential hound. And when he informed me of a malicious ham in the
>vicinity of his frequency, well, that easily explains the malformed
>callsigns. :(
>
>N1TP, in case you didn't hear me, I rated your signal as 209. I apologize
>for not giving higher numbers, but I *just* could not hear a dit or a dah
>from you most of the time... :(And for the life of me, I knew you were

>desperately trying to send your QRP-L number, but again, I just couldn't
>grab it.
>
>All in all, this foxhunt proves that the sole source of the problem is in
>the antenna, I think. Right now, the only way to get it to get a 1:1 swr
>on my antenna is to make it vertical -- throw half the antenna on the
>roof, and the rest droops to the ground. But it worked for a local ham,
>Gary, who also had a vertical. *grin*
>
>My next project is to see if I can string that dang thing horizontally
>somehow, and still maintain the 1:1 match on it.
>
>=====

> KC5TJA/6		- TEAM DOLPHIN -
> DM13		Samuel A. Falvo II
> QRP-L #1447		http://www.dolphin.openprojects.net
> Oceanside, CA		

>
>

Date: Thu, 5 Nov 1998 04:31:53 -0700
From: Niel Skousen <skousen@srv.net>
To: qrp-l@lehigh.edu
Subject: [24208] FS: FT757GxII, 9913 & stuff
Message-ID: <v04003a00b26738f4164d@[12.7.221.242]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Doing a little cleaning, organizing, and making room (& \$\$) for a K2 :-)
I have the following for sale (OBO):

Yaesu FT-757GxII \$450/offer
- 160 to 10m, .1-100w (adj from front panel)
- AM/FM/USB/LSB/CW (wide 2k, narrow 600hz)
- Gen. Coverage .1-30 Mhz rcvr
- NB, PreAmp, Atten, Speech Proc, keyer
- dual VFO, memory, scanning, IF notch, IF shift

Yaesu FP757 supply, \$95/offer
- matching high eff. / low noise power supply
- 13 vdc, 20A pk

Anybody have an FM option unit for the FT747 ??

Pls rply direct

tnx es 72

Niel

Niel Skousen : WA7SSA skousen@srv.net
Idaho Falls, ID QRP-L.119 fr DN33wm

Date: Thu, 5 Nov 1998 04:34:34 -0700
From: Niel Skousen <skousen@srv.net>
To: qrp-l@lehigh.edu
Subject: [24209] Al tubing sources/references sought
Message-ID: <v04003a01b2673d4b1b78@[12.7.221.242]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've got some sources for aluminum tubing for an antenna project,
but I'm looking for feedback & information on various sources and supply
delivery etc.

tnx es sri for the bandwidth

Niel

Niel Skousen : WA7SSA skousen@srv.net
Idaho Falls, ID QRP-L.119 fr DN33wm

Date: Thu, 05 Nov 98 08:27:39 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-l@lehigh.edu>
Subject: [24210] Elmer200: Lesson Number 2
Message-ID: <199811051425.JAA27034@nss4.cc.Lehigh.EDU>

Elmer200: Part 2 November 4, 1998

Define Oscillator. A circuit that oscillates, i.e. produces one or more
frequency components as output. Usually requires only a DC power

source. We'll look at the requirements needed to get a circuit to do this later.

Characteristics of an Oscillator, both desired and undesired:

- A. Spectral Purity of Output including noise and undesirable frequencies
- B. Power Level Output and Efficiency
- C. Stability
- D. Tuning Range
- E. Cost and parts availability to us and complexity
- F. Reproducibility in building by others
- G. Startup characteristics on power up or keying on and off

I may have left some out for now.

Let's start with the spectral purity of the oscillator first as it is apropos to a recent thread that was recently brought up on QRP-L.

A pure sine wave voltage source may be represented mathematically by

$$V(t) = A \sin(\omega t + \theta(0))$$

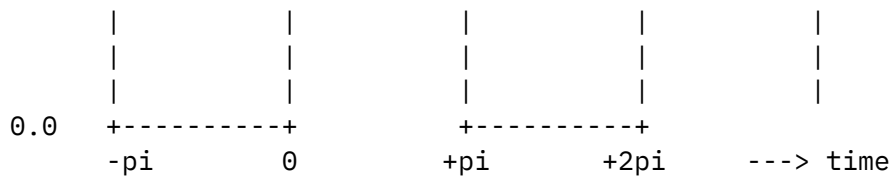
where $V(t)$ is the voltage at time t , ω is $2 \times \pi \times \text{frequency}$ where frequency is in Hz, and A is the amplitude. $\theta(0)$ is the phase offset and we'll assume a value of zero for now to make the math easier. Review chapter 6 of the ARRL Handbook (1995 or later) if this is foreign or new to you.

If we construct or use an oscillator with only one frequency out it would show up on an oscilloscope as a pure sine wave and on a spectrum analyzer as a single vertical line. See page 15.3 in the handbook and look at figure 15.2 for the part f_1 as shown on an O-scope and on the spectrum analyzer. Remember this for later on.

Most of the time this is what we want from an oscillator to be used as a local oscillator (LO) in a receiver or transmitter section or common to both in a transceiver. The same for a variable frequency oscillator (VFO),
etc....

There's some heavy mathematics for periodic functions and waveforms that constantly repeat over a long period of time that says we can take a waveform and break it down into a bunch of sine and cosine terms to reconstruct the original waveform that we started with. Fourier series and Fourier coefficients for each of the sine and cosine terms can be mathematically found. Let's start with a square wave that looks like

1.0 + +-----+ +-----+



This can be shown to be represented by

$$V(t) = 1/2 + 2/\pi * (\sin(t)/1 + \sin(3t)/3 + \sin(5t)/5 + \dots)$$

What this means is that if I have a square wave of amplitude one at frequency f , then it is composed of a spectral distribution of the fundamental frequency f and all the odd harmonics. This is the ideal case and you would not have any even harmonic components.

So let's apply this to the recent discussion that came up on the Fireball transmitter on QRP-L. It was like de ja vu when it came up as I was sitting at the terminal with a folder that had the following three articles:

"The FIRE-BALL QRP Rig - 50 milliwatts of pure power." by Bill Brown, WB8ELK in 73 Amateur Radio Today, November 1990, Page 18.

"The Firecaler Milliwattmeter - Calibrate your mini-QRP rig." by Martin Beck, WB0ESV, in 73 Amateur Radio Today, November 1990, page 22.

and

"The Smoke Detector Receiver - Turn the FIRE-BALL into a complete transceiver."
by Martin Beck, WB0ESV, 73 Amateur Radio Today, Nov 1990, page 24.

They were using 6V for the supply voltage and they say an output power of 50 to 60 mW as measured using a scope when the FIRE-BALL was feeding a 50 ohm dummy load. The output of the osc was fed directly to the antenna when in use through a relay. NO OUTPUT FILTERING was used.

So here are some exercises for those that have the FIRE-BALL and the necessary equipment. Or if you have a TTL oscillator module at any frequency, just don't put it on an antenna. :-)

1. Look at the waveform on a O-scope while feeding a 50 ohm dummy load.
2. Look at the waveform on a O-scope while feeding an antenna on 10 meters.
3. Look at the output using a spectrum analyzer if you can find one. Under both 1 and 2 conditions.
4. Using the formula above for the series of sine functions, compute the power levels at each of the odd harmonics. Compare that with

the numbers shown later below from Paul Harden, NA5N, and his measurements. Multiply the amplitudes of each harmonic by 4 in the above formula.

Remember to calculate RMS values, etc to get the power levels correctly.

5. Figure out what the impedance is for the TTL oscillator. Illustrate how you would go about determining this. (Advanced experiment...)
6. The term 1/2 is the DC component of the output. What happens to it?
7. What is the power input to the osc module? Where did the article get the 50mW value as a power level?
8. Does the output frequency drift with keydown into a dummy load for any length of time? How can you tell if it's the osc or the frequency counter that is drifting?

Paul Harden did an experiment for us using a 1MHz osc. Using a 5V power supply he was getting 0 to 4V square wave or close to same and I'm assuming a 50ohm load as that is what the typical SA sees. Here are the measurements at the fundamental (1MHz) and the harmonics:

freq	power	power in mW or uW
1MHz	+14dBm	25mW
2MHz	-12dBm	between 100uW and 30uW
3MHz	+4dBm	2.5mW
4MHz	-20dBm	
5MHz	0dBm	1.0mW
6MHz	-27dBm	
7MHz	-4dBm	398uW
...		

So, if posting as I understand it from Ed Hare, W1RFI, on FCC regs requires harmonics to be down 30dB for QRP levels, then this is not the case for a square wave generator. If you put a filter on the output, you will significantly reduce the fundamental power level in the process of reducing the harmonics.

If you have a FIRE-BALL at 28.060MHz, the 3rd harmonic is at 84.130MHz which is in the middle of Channel 6 on the TV. Same for or close to chan 6 for the other TTL crystal oscillators in the 10 meter band. Something to think about before using on the air. If you put this on the air, turn on a TV to channel 6 with an outside antenna and see how bad the RFI is. Inquiring minds wanna know. Did you get a call from the neighbors?

It is hoped that by the end of the Elmer200 series we can have a working 10 meter oscillator that will be much better and just as cheap. The original price of the FIRE-BALL was \$24 including shipping. I see that

in the latest Mouser catalog, page 51, the 28.322MHz clock oscillator is \$3.38 quantity one.

So, we have started with the concept that an oscillator can and will output a fundamental frequency and possibly more than we bargained for. We will look at this for each oscillator we build or study.

Hopefully this posting and lesson is an eye opener for one or more students.

For now..... ciao,

HOMEWORK: Read pages 14.1 through 14.28.

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Thu, 05 Nov 98 08:44:48 -0500
From: Chuck Adams <adams@ticnet.com>
To: Bob Patten <n4bp@bc.seflin.org>
Cc: qrp <qrp-l@lehigh.edu>
Subject: [24211] Re: Shareware Contest Logger Available
Message-ID: <199811051442.JAA24036@nss4.cc.Lehigh.EDU>

Bob et.al.,

Many thanks to Bob for putting the shareware version of CT online. I use CT , although the latest version which I paid big bucks for, and CT and TR are the two most popular computer logging programs during SS.

If you think you are going to use it, my personal recommendation is download it today, build up the interface and I use a 2N2222 (of course). Be sure to use shielded cable and check it out today. You will not have time on Saturday to do this and of course something will be missing if you wait. Also play with the program by using the MFJ tutor to send you calls and you enter them and fake the exchange.

Be sure to update the sections file with the program to get the additional

two
or three sections that have been added since 1991-1993 timeframe.

Who knows, you just might get into the swing of things Saturday and before
you know it you'll be the leader in your section and can't stop. You'll
pretty
soon find out why an individual that most of the time seems pretty sane
winds
up sitting at a desk and rig for more than 12 hours with only one or two
quick
breaks. Continuously winding the dial and furiously copying every dit and
dah
coming through the headphones/speaker. I use the headphones though most
of the time I'm in an external room to the house making racket..... :-)

Thanks Bob, good job OM

cu n tst es gl es 73

dit dit

P.S. how about moving over to PR or VI??????? :-)

+

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Thu, 05 Nov 1998 10:04:04 -0500
From: Rick Mintz <Rmintz@frontiernet.net>
To: QRP Newsgroup <qrp-1@Lehigh.edu>
Subject: [24212] (no subject)
Message-ID: <3641BE64.838E1CC7@frontiernet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

E30HA
EP3PTT
HA5YPP

Date: Thu, 5 Nov 1998 07:18:38 -0800 (PST)
From: Richard Fisher <nu6sn@yahoo.com>
To: qrp-l@lehigh.edu
Cc: KI6SN@aol.com, KI6SN@yahoo.com
Subject: [24213] Results: ARS' November Spartan Sprint
Message-ID: <19981105151838.27234.rocketmail@send104.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Following are the results of ARS' November Spartan Sprint, Nov. 3.
Congratulations to Skinny Division winner K6PZB, John; and Tubby
Division winner NC7X, DB.

As you'll see, there were outstanding efforts through the entire entry
listing in both divisions, and the Soapbox comments (posted separately
to QRP-L) will give you a flavor for some of the very, very
interesting propagation during the test.

Special recognition to K7TQ, Randy; and K5F0, Chuck; for taking to the
field for the event. Read their stories in the Soapbox.

On behalf of globe-trotting Russ Carpenter, AA7QU, I'd like to
sincerely thank all who participated and let you know how very much we
appreciate your support of the Adventure Radio Society.

We look forward to seeing you in the December '98 Spartan Sprint, when
Russ will be back in the saddle as ARS contest guru.

Vy 72,

Richard Fisher, KI6SN

RESULTS: ARS' NOVEMBER SPARTAN SPRINT

If you didn't give us the weight of your station, or if it weighed
more than Mt. St. Helens, we stipulated a weight of 30 pounds. All
QSOs got one point each. The Soapbox has been posted separately.

* * * * *

THE SKINNY DIVISION (points per pound of station weight)

Call	Name	80	40	20	Total	Weight	Pts./Lbs.
K6PZB	John	0	17	4	21	.800	26.25
K7TQ	Randy	0	30	0	30	1.20	25.00
N7CEE	Bruce	0	17	0	17	1.25	13.60
AB0GO	David	0	19	0	19	3.0	6.33

KB9LGJ	Tim	0	0	5	5	.875	
5.71							
K5FO	Chuck	0	8	0	8	1.600	
5.00							
N0IBT	David	0	19	0	19	4.500	4.20
K1QM	Joel	5	6	1	12	3.500	3.43
KC1FB	Jim	0	5	0	5	1.500	
3.33							
K5HWT	Morgan	0	4	0	4	1.310	3.05
WS8D	Michael	7	15	0	22	10.000	2.20
NC7X	DB	12	30	6	48	30.000	1.60
WE6W	Ed	0	34	0	34	30.000	1.13
KB7MBI	Alan	2	22	6	30	30.000	1.00
VE3ELA	Ken	3	12	2	17	17.000	1.00
W7SNV	Al	0	3	1	4	5.20	
.77							
N05W	Chuck	0	1	4	5	8.400	
.60							
K0Y0	Mike	0	8	5	13	30.000	.43
AA2VX	Mike	3	5	5	13	30.000	.43
KA8LLE	Ben	5	2	2	9	28.000	
.32							
AL7FS	Jim	0	9	0	9	30.000	
.30							

* * * * *

THE TUBBY DIVISION (sorted in order of points)

Call	Name	80	40	20	Total
NC7X	DB	12	30	6	48
WE6W	Ed	0	34	0	34
K7TQ	Randy	0	30	0	30
KB7MBI	Alan	2	22	6	30
WS8D	Michael	7	15	0	22
K6PZB	John	0	17	4	21
AB0GO	David	0	19	0	19
N0IBT	David	0	19	0	19
N7CEE	Bruce	0	17	0	17
VE3ELA	Ken	3	12	2	17
K0Y0	Mike	0	8	5	13
AA2VX	Mike	3	5	5	13
K1QM	Joel	5	6	1	12
KA8LLE	Ben	5	2	2	9
AL7FS	Jim	0	9	0	9
K5FO	Chuck	0	8	0	8
KB9LGJ	Tim	0	0	5	5

KC1FB	Jim	0	5	0	5
N05W	Chuck	0	1	4	5
K5HWT	Morgan	0	4	0	4
W7SNV	Al	0	3	1	4

DO YOU YAHOO!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Thu, 5 Nov 1998 08:17:25 -0700
From: Brad Mugleston <bmug@gwl.com>
To: "'qrp-1'" <qrp-1@lehigh.edu>
Subject: [24214] QSK?
Message-ID: <01BE0894.BA062720.bmug@gwl.com>

The QSK on my TS-830S depends on how fast you can flip the send/receive switch or how fast you set the VOX delay. My OHR Explorer II is FAST. I believe I know why you have to switch - so you don't send you signal back into your receiver.

OK, so how does my daughters cell phone work? As fast as she and her friends talk this must be some fast QSK or is there something else going on?

de KB0ROL, Brad

Date: Thu, 5 Nov 1998 07:35:07 -0800 (PST)
From: Richard Fisher <nu6sn@yahoo.com>
To: QRP-L@lehigh.edu
Cc: KI6SN@aol.com, KI6SN@yahoo.com
Subject: [24215] Soapbox: ARS' November Spartan Sprint
Message-ID: <19981105153507.9007.rocketmail@send103.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

SOAPBOX COMMENTS FROM

ARS' NOVEMBER SPARTAN SPRINT

>From KB9LGJ, Tim: Not much activity on 20 meters this time. Rig was an SST-20 with a built-in battery pack made from cordless phone batteries and the key was a homebrew straight key.

>From WS8D, Michael: Had a lot of fun, wish the 20 meter beam was up. Rig: Argonaut II, Vibroplex Blue Racer, and 12-volt supply.

>From K1QM, Joel: Certainly strange propagation. Never worked so many California (stations) on 40 meters, or Utah on 80 meters before!

>From K5HWT, Morgan: Gee, I was starting to feel kinda isolated down here in 5-land, unable to get a solid contact till 9:15 and then, finally, thankfully, 3 more between 9:40 and 9:50 which kept me from throwing the little SST out the window. Gotta make me one of them clothespin keys, that J-38 weighs too much. See you all next month.

>From AL7FS, Jim: Many thanks to WE6W, KB7MBI, N7MFB, KL7IXI, K7TQ, W6BAB, W7SNV, VE7DSN, and N7OU. You all know how I hunger for 40 meter contacts. Well, ANY contacts. Also copied but could not reach K6PZB, W0RSP, NC7X, WA6UIM, AB7MY, and a Maryland station on 7.042.28 at 0352Z with 3CU in the callsign. I tried W0RSP on and off for 30 minutes. Good signal for at least 20 minutes; marginal another 20. I only operated the last hour and 15 minutes as I do not get off work until 5 p.m., the start time for the SPs.

>From AA2VX, Mike: Not too many QSOs, but had fun again. I think it is interesting that my closest 20 meter and 40 meter QSO from New York was Colorado; all log entries for these bands were in the far west. I did hear some K5s, but did not work them. I do not remember hearing a single K4. Good Lord willing, I will listen for you next month.

>From KA8LLE, Ben: My first contest, other than Field Day, (and) really enjoyed it. The station -- an Argo 509, MFJ 949D tuner, MFJ keyer and paddles, and 4.5ah gel cell -- needs to go on a diet. See you all in December.

>From N7CEE, Bruce: Thanks Richard (KI6SN) and Russ (AA7QU) for doing the work to make the Sprints possible. This was a good one -- lots of activity.

>From KB7MBI, Alan: Heavy rigs get AWEIGHT with a lot more! I do not eat quiche and I do not use puny rigs (hi, hi).

>From K6RPN, Doug: Because of a family committment, I was only able to operate 10 minutes, but it was fun. I snagged six stations from six states.

From: K5FO, Chuck: Worked only 40-meters with an old NE-4040 without case, 0.8ah battery, Curtis Chip keyer and homebrew paddle, endfed wire with homebrew tuner. Lots of fun and hope that I can return once again for this event. Operating time was less than an hour as after a while receivers seemed to be dying on a lot of rigs. Walked 3.5 miles to a park near the lake. Chilly, but no wind and nearly a full moon shining on the lake as the moon came up over the trees on the east side of the lake. (I was running) 0.95 watts, but sent 1-watt on transmissions so as to make it easier on the other end.

>From VE3ELA, Ken: What a spectacular sprint! Bands went long, and highlights for me included working W0RSP, WE6W in California on 40 meters, and KB7MBI in Washington on both 40- and 80-meters. Also worked NC7X in Utah on all three bands! Incredible results for my puny 3-watts and random wire from Central Ontario.

>From KC1FB, Jim: Finally remembered the Sprint and had a chance to play, so I hooked up the SST-20 and all the light accessories, but could not hear any stations, which I thought was weird. Substituted the NC-40A and all I could work was really long skip: Colorado, Arizona, Utah, California and Oregon. I heard a lot of odd signals and fades like I heard during the Zombie Shuffle. I hope all the strange signals are not originating inside my house.

>From N05W, Chuck: My first Spartan Sprint and lots of fun. I can see I need a 40-meter antenna. The 1-watt and 20-meter attic dipole worked well on 20, but it was tough to get anyone to hear me on 40 with that combination! Thanks to NC7X for that single 40-meter QSO. Always a pleasure to hear so many stations proving that you "need only 5 watts" to have some fun, etc. See everyone again in December.

>From K7TQ, Randy: Wow, what a night. I decided that I would make one last trip into the mountains before the snow flies. On the way I saw a moose. I arrived at 2:30 p.m. PST and had the 40 meter dipole up between trees in about an hour. The background had larch (a "pine" tree that loses its needles every year) that had turned golden among the other green pine trees. About 4:30 the sun set and a short time later the moon came up with Saturn to its left and Jupiter off to the right. By 6 p.m. PST the pens were not writing very well, but I started calling CQ. Soon I discovered that the paper was wet from dew. As the night progressed the dew turned to frost. Frost on the table top, frost on the rig, and frost on the paddles. It did not keep me from having a great time and working 30 stations. Rig was an SST with G4ZPY paddles, 10 nicad AA batteries, and an earpiece. A great evening outside in frosty Idaho.

>From WE6W, Ed: Had fun. Had to bang the side of the Drake TR-3 due to

my oxidized antenna relay. Really added excitement to the last 40 minutes. Great contest/sprint fun once again.

DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: 5 Nov 1998 08:38:12 MDT
From: Lamborn@onlinecol.com
To: qrp-l@lehigh.edu
Subject: [24216] Sweepstakes logging program
Message-ID: <199811051540.KAA58480@nss4.cc.Lehigh.EDU>

Hi all,

Scott, N3FJP offers a free sweepstakes logging program for Windows 95/nt users. Email him a snkdavis@aol.com. He will send the program as an email attachment. See "STRAYS" page 70 of the November QST for more details. I have not received a copy yet so I cant state how it works.

72,

Steve Schroder, KI0KY, Hotchkiss, CO QRP-L 1303

to: in:qrp-l@lehigh.edu
cc: IN:Lamborn@onlinecol.com

Date: Thu, 5 Nov 1998 10:42:50 -0500
From: Stewart Whitehouse <STEW_W@compuserve.com>
To: "INTERNET:SBillingsley@usaninc.com" <SBillingsley@usaninc.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [24217] Homebrew Spectrum Analyzer for the Radio Amateur
Message-ID: <199811051043_MC2-5F3D-18E2@compuserve.com>
MIME-Version: 1.0

Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Hi Folks

I'm also working on the SA. Have the boards but just now ordering the parts.

I would like to hear from other builders on how they are doing the power supply.

Can one take a 34v CT xformer, ground the CT, and treat either end as a seperate winding to get the + & - 15V? Or, would a simple resistor divider network= work?

72/73

Stew KE4YH
Dunedin, Florida

please respond to <ke4yh@email.msn.com>.

Date: Thu, 05 Nov 1998 09:54:47 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: snooker@naples.net, Qrp-1 Reflector <qrp-1@Lehigh.EDU>
Subject: [24218] Re: filters
Message-ID: <3641CA47.ED9CB4@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ed Johanson wrote:

> If I stick with Netscape what's the simplest way to add a couple of
> filters?

Ed on Netscape 4.0 or later you do the following:

If you want to direct certain messages to a special folder such as qrp-1 then do steps 1-12. If you just want certain messages to go to the trash bin, then skip to step 6.

1. Open up the window titled Message Center - To do this, click the icon second from right at bottom of either your Inbox or Browser.

2. Set cursor on Inbox
3. click file menu and select New folder
4. Type in name of any new folder you want to create to capture messages such as qrp-1. Continue doing this until you have setup all the folders that you will need. Make sure they are under inbox or atleast you know where they are because you will need to know that for the steps that follow.
5. Close Message Center
6. click edit menu and select mail filters.
7. click new to create new filter.
- 8, Type in name of new filter say qrp-1 or foxes or whatever.
9. Select whether you are going to filter by subject, by sender or what. In most cases, you will probably select subject.
10. Next go the box to the right where you type in what words you want that filter to filter by, say "FOX". (You can do multiple screens for a given filter but I would wait on that until you get some basic experience first.)
11. Then drop down to the next row where you will need to select where you want the selected messages to go. You will likely see the Inbox as the default. Click on the drop down box and examine the options. Beneath the Inbox, you should find the folder you created. Select it.
12. Click ok at the bottom of the dialog box.

You have now created one filter. If you want others, merely repeat the steps.

You may want to have a filter for different reflectors. If that is the case, then select "sender" rather than "subject" Put all or part of reflectors email address (qrp-1@Lehigh.edu) in the box indicating what the computer should be looking for.

Note that if you set up more than one filter, you can priorze them. For example, I give my fox filter top priority. All fox messages immediately get sent to the trash bin. My qrp-1 folder is further down the list. You can put the filters in any order you want by selecting the filter and using the up/down arrows to move it up or down in priority.

When you are all done. Check your email. Look first to your trash bin to see what was sent there. Make sure that nothing you would want to read is there. If it is, figure out why and make changes. Check the other folders you created to see if everything is where it should be. Click on the inbox to look at the sub folders.

After you are sure that everything is working, I would continue to look at the trash bin first to make sure you are looking for anything. You don't have to open the files, just look at the subject header. Then as you look at each folder and you have read all the messages in that folder, merely select all messages and hit delete. These files will then go to the trash bin. When you have read and deleted all that you want to delete, then empty your trash bin from the file menu.

Hope this helps. If you have any questions, let me know.

Date: Thu, 5 Nov 1998 08:56:38 -0700
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-1'" <qrp-1@lehigh.edu>
Subject: [24219] QSK
Message-ID: <01BE089A.33839600.bmug@gw1.com>

OK, I've received a few replies pointing out they use a different frequency for send and receive. Understood, BUT how far apart do these frequencies have to be so they don't bleed over into each other?

I'm studying for my Advanced so I'm going to try to get technical here.

Are they using a very tight front end, one that is tuned for each frequency and then feeding the correct signal to the transmitter/receiver or how does this work.

It was mentioned that repeaters work this way I know on 2M the standard offset is 600Khz (I think I have that correct). Does this number have to go up or down when the frequency goes down (such as HF). Also, don't most repeaters use two antennas?

Also, is this a difficult thing to do (at HF)? I'm just surprised we don't see more duplex on the air (I know it would take up more band width, I'm just wondering).

Thanks

de KB0ROL, Brad

Date: Thu, 5 Nov 1998 09:05:54 -0700
From: "James R. Duffey" <ji3m@maxwell.com>
To: qrp-l@Lehigh.EDU
Subject: [24220] Praise in Public; Criticize in Private
Message-ID: <v03007801b2677cb1c34a@[199.120.49.103]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I came across this axiom when raising my kids;

"Praise in public; Criticize in private."

It not only works well in raising kids, but also in other endeavors. I think it also applies to QRP-L posts. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5 DM65tc <jamesd1@flash.net>
30 Casa Loma Road
Cedar Crest NM 87008

Date: Thu, 05 Nov 1998 09:09:29 -0700
From: Andy Fox <foxes@theriver.com>
To: bmug@gwl.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24221] Re: QSK?
Message-ID: <3641CDB9.38C0CB7A@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Brad,

My guess is that cell phones are full duplex devices. There are probably two frequencies in use; one is used from the originator to the destination, while the other is used in the opposite direction.

This, of course, is an oversimplification. I'm sure there are many pairs of frequencies, depending upon how the call is routed.

73 de Andy, KK7HV

Date: Thu, 05 Nov 1998 18:07:39 +0200
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: bmug@gwl.com
Cc: QRP-L <QRP-L@lehigh.edu>
Subject: [24222] Re: QSK
Message-ID: <3641CD4B.69B9@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Brad Mugleston wrote:

>
> OK, I've received a few replies pointing out they use a different frequency for
> send and receive. Understood, BUT how far apart do these frequencies have to
> be so they don't bleed over into each other?

Brad,

I think it's time sharing that's used in cell phones. The signals from
and to a GSM phone are digitized and AM modulated to boot (if I have
heard it right). The phone switches from send to receive very fast. QSK
using pin diode switches ...

AFAIK,
oh2zaz

--

Arjen Raateland
Finnish Environment Institute
SAS Support
phone +358 9 4030 0350

Date: Thu, 05 Nov 1998 11:09:45 EST
From: we6w@juno.com (Ed Loranger)
To: n1tp@worldnet.att.net
Cc: qrp-l@Lehigh.EDU
Subject: [24223] Re: Fox/2 Log
Message-ID: <19981105.080908.4791.4.we6w@juno.com>

Tom, I heard you trying to work Sam. You were
rst 449 at my qth. At one time I thought I
might hear sam but it was a June Bug in a bag
on the floor of the garage....

Went to bed, cold.

Some day Sam. Some day... (No luck on Fox Brian.)
72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 5 Nov 1998 10:16:56 +0000
From: "Bryan Turner" <turnerw@email.uah.edu>
To: bmug@gwl.com
Cc: qrp-1@Lehigh.EDU
Subject: [24224] Re: QSK
Message-ID: <199811051620.KAA27626@uahis1.uah.edu>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

There are problems associated with running split frequencies on the same antenna with simultaneous transmit and receive. (This is how most repeaters operate.)

Duplexers are used to keep the transmitted signal away from the receiver, so the receiver is not desensed. Two factors in duplexers are frequency and split.

The frequency is a limitation on some duplexer applications because the size (and expense) of the duplexer increases as the frequency decreases. Six meter duplexers are unusual and ten meter duplexers are almost unheard of; repeaters on these bands often use split transmit and receive sites with a VHF or UHF link. Good duplexers for 440 MHz are quite small. (You've probably seen duplexers in ads in QST. The "cans" on two meters are about the size of fire extinguishers.)

The quality needed for a duplexer increases as the split frequency decreases. The 600 kHz split used on two meters demands a very good duplexer. (In fact, duplexers below 440 MHz are often the greatest expense in the repeater system.) 1 Mhz splits on two can use slightly lower quality duplexers for equal results. A good example of tiny, cheap duplexers are the ones used with dual band rigs. The split between 2 and 440 requires very little to keep one radio out of the other.

I think the split on the 800-900 MHz phones is on the order of 30 MHz.

73 Bryan W8LN

Date: Thu, 5 Nov 1998 12:43:43 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: kf2ew@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24225] Re: My daughter has a CALLSIGN!
Message-ID: <Pine.LNX.3.93.981105123839.592G-1000000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 3 Nov 1998 kf2ew@juno.com wrote:

> WELL...I am even more pleased to announce that, at age 6, she has passed
> her written and her new call sign is KC2EEQ.

Mike,

I'd love to work KC2EEQ:) The youngest I've worked to date is nine, and he was in north carolina. I kept waiting for the second digit of his age to get sent <grin>. Make sure she fills the cards out herself, even if you have to tell her what to write. The one from my 9 YO contact is on the wall just because of that. Just something about little kids handwriting on there.

I'm sure she could have WAS in a month if you let us know when she'll be on the air. I know I'd wait in line for an N3XRV TU 599 BK :) In fact I'd like that better'n DX!

PS. you think her dad would let her QRO for some contacts? hi.

cu es 72

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Thu, 5 Nov 1998 09:43:36 -0700

From: kv7g@juno.com
To: qrp-1@Lehigh.EDU
Subject: [24226] For Sale, HAM-KEY
Message-ID: <19981105.094336.3886.0.kv7g@juno.com>

For Sale, HAM-KEY paddle by Ham Radio Center INC
Excellent condition, Can E-mail a .JPG of it.
\$50.00 Post Paid - P.O. Money order required

Bud - KV7G - Yuma, AZ

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 05 Nov 1998 10:57:40 -0600
From: Kevin Muenzler WB5RUE <wb5rue@stic.net>
To: foxes@theriver.com, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [24227] RE: QSK?
Message-ID: <000001be08dd\$67f55ac0\$d8016f81@muenzlerk.uthscsa.edu>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Yes cell phones are full duplex. Transmit is in the 860Mhz range and
receive is in the 890Mhz range.

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Andy Fox
> Sent: Thursday, November 05, 1998 10:09 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: QSK?
>
>
> Hi Brad,
>
> My guess is that cell phones are full duplex devices. There are
> probably two frequencies in use; one is used from the
> originator to the
> destination, while the other is used in the opposite direction.
>
> This, of course, is an oversimplification. I'm sure there are many

> pairs of frequencies, depending upon how the call is routed.
>
> 73 de Andy, KK7HV
>

Date: Thu, 05 Nov 1998 12:01:24 -0500
From: "John Humphrey" <jhumphre@ultra-tech.com>
To: qrp-l@lehigh.edu
Subject: [24228] Re: NICADS cheap
Message-ID: <s64193b9.034@ultra-tech.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Thanks, Tom, for the heads up on the batteries. They cost \$1.50 here in =
VA. I want to mount 2 Packs inside my Explorer and want to charge them =
using a wall transformer. Anybody have a charger circuit that uses an =
outboard wall transformer or at least can tell me how to do it?

Thanks,
John W4IM QRP-L #1691

Date: Thu, 05 Nov 1998 11:03:34 -0600
From: Kevin Muenzler WB5RUE <wb5rue@stic.net>
To: bmug@gwl.com, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [24229] RE: QSK
Message-ID: <000101be08de\$39b46c40\$d8016f81@muenzlerk.uthscsa.edu>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Good questions.

When you work QSK you are not receiving and transmitting at
the same time. QSK means that your receiver is active between
the dits and dahs of your CW. I think you are thinking of
working "split." When you work split you are receiving and
transmitting on different frequencies, even different bands.
Repeaters work "split" but they also receive and transmit AT

THE SAME TIME using extremely narrow filters to prevent the transmit energy from reaching the receiver. When you work split on hf you are not receiving and transmitting at the same time.

On HF working split is usually only a few kc apart. For instance a DX station might be calling CQ and say "listening up 5 to 10." This means that he is receiving 5 to 10 kc above HIS transmit frequency. This helps him "manage" the pileup that might be happening. It also spreads the pileup out a bit so that he can hear individual stations better.

To repeaters. Many, if not most, repeaters don't use two antennas they use what are called duplexers or cavities. (Although it is much less expensive to use two antennas.) These are extremely narrow band filters that are between the receiver and transmitter. They also connect the receiver and transmitter to the same antenna. They prevent the transmit energy from reaching the receiver and desensing it. Surly you've noticed that you can transmit using a repeater and the guy standing next to you can't hear the repeater. This is called desensing. Really good duplexers will reduce the transmit power to the receiver by as much as 100db with only 1.5 or so db of insertion loss. There are HF repeaters on 10 meters that have a split of 500kc I think.

Hope this helps,

Kevin, WB5RUE

keep up that studying!

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU

> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> Brad Mugleston

> Sent: Thursday, November 05, 1998 9:57 AM

> To: Low Power Amateur Radio Discussion

> Subject: QSK

>

>

> OK, I've received a few replies pointing out they use a

> different frequency for

> send and receive. Understood, BUT how far apart do these

> frequencies have to

> be so they don't bleed over into each other?

>

> I'm studying for my Advanced so I'm going to try to get
> technical here.
>
> Are they using a very tight front end, one that is tuned for
> each frequency and
> then feeding the correct signal to the transmitter/receiver
> or how does this
> work.
>
> It was mentioned that repeaters work this way I know on 2M
> the standard offset
> is 600Khz (I think I have that correct). Does this number
> have to go up on
> down when the frequency goes down (such as HF). Also, don't
> most repeaters use
> two antennas?
>
> Also, is this a difficult thing to do (at HF)? I'm just
> surprised we don't see
> more duplex on the air (I know it would take up more band
> width, I'm just
> wondering).
>
> Thanks
>
> de KB0ROL, Brad
>

Date: Thu, 5 Nov 1998 09:14:03 -0800 (PST)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: Ed Loranger <we6w@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24230] Re: Fox/2 Log
Message-ID: <Pine.LNX.3.96.981105091333.19061C-1000000@amethyst.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 5 Nov 1998, Ed Loranger wrote:

> Some day Sam. Some day... (No luck on Fox Brian.)

Heh -- I'll be waiting... *grin*

=====

KC5TJA/6

-| TEAM DOLPHIN |-

DM13 | Samuel A. Falvo II
QRP-L #1447 | <http://www.dolphin.openprojects.net>
Oceanside, CA |

Date: Thu, 5 Nov 1998 12:20:05 -0500 (EST)
From: Bob Patten <n4bp@bc.seflin.org>
To: "Acito, William" <william.acito@intel.com>
Cc: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [24231] Re: CT Shareware
Message-ID: <Pine.3.89.9811051202.A18775-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 5 Nov 1998, Acito, William wrote:

>
> I use the share ware version of CT, fb.
>
> One caveat... the NNY section needs to be added tot he contest file, or a
> new version of it needs to be included.
>

Don't forget the new NL (Newfoundland/Labrador) section that was added last year... There might even be one other, but doesn't come to mind. Best to go through an updated list and edit the sections.dat file while comparing.

73,

Bob Patten, N4BP (0 0) Plantation, FL
-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Thu, 5 Nov 1998 09:23:23 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <bmug@gwl.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [24232] Re: QSK?
Message-ID: <0d4d01be08e1\$002cea80\$140a0a0a@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Brad --

A cell phone is full duplex. The transmitter runs even while receiving. The transmit and receive frequencies are at the opposite ends of the allocated bands, and a diplexer is used to split the transmit and receive signals.

Mike K1MG

>OK, so how does my daughters cell phone work? As fast as she and her friends
>talk this must be some fast QSK or is there something else going on?
>
>de KB0ROL, Brad

Date: Thu, 05 Nov 1998 11:32:48
From: Steven Weber <kd1jv@moose.ncia.net>
To: bmug@gwl.com
Cc: qrp-1@lehigh.edu
Subject: [24233] Re: QSK?
Message-ID: <3.0.3.16.19981105113248.2e2f7236@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
>OK, so how does my daughters cell phone work? As fast as she and her friends
>talk this must be some fast QSK or is there something else going on?
>
It's duplex, independant receive and transmit frequencies are used, it's always hearing and talking at the same time. No switching required, just a fancy filter called a diplexer, which keeps the transmitter out of the reciever.

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Thu, 5 Nov 1998 12:39:24 -0500

From: "Franco, Nicholas J" <franco@bnl.gov>
To: qrp-l@lehigh.edu
Subject: [24234] FS: Icom 728
Message-ID: <7F3D7334ABE6D11196F500A0C9B426B61E36@exchange.bnl.gov>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Here's the deal ...

Niel had this FT757GxII for sale and I love that radio. So, if anyone would like an IC-728 from me, then I can buy Niel's Yaesu. Get it? If I buy his rig without selling mine, I will be homeless, wifeless, useless, and down right misserable.

Icom 728:

Original Packaging and Manual - Hand Mic
Runs 2 to 100 watts from front panel control
Dual VFO with Split operation
PassBand tuning and RIT
Full coverage receiver with Triple Conversion
AM FM and Programmable Memory
500Hz CW filter included
Great mobile rig - small footprint
NB / Preamp / blah blah blah

How's \$600 sound? I can get the rig and PS and ship this off too.

This is an impulse post so I don't have the manual with me to give more details.

If Niel sells his 757 before this hits the interest market, I will probably retract the offer.

ObQRP: Listened for the NT Fox last night - Phew! I forgot how ruff it is to work 40m Novice at night. Now that's a hunt :-)
Needless to say - I Never Heard the Fox (NHTF). There was clearer spot down around 7.104 though - Hmm!

72,
Nick - kf2ph
QRP-L # 13 . . .

--

Nicholas J. Franco <>> BROOKHAVEN NATIONAL LABORATORY
Systems Administrator RHIC Project Building 1005
Tel: (516) 344-5467 UPTON, NY 11973-5000

Fax: (516) 344-3674 Ham Call: KF2PH
Email: nickf@bnl.gov <http://www.rhichome.bnl.gov/People/franco>

Date: Thu, 5 Nov 1998 07:37:11 -0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: "qrp-l" <qrp-l@lehigh.edu>, "gqrp-l" <gqrp-l@blacksheep.org>
Subject: [24235] VX0 crystals
Message-ID: <000201be08e6\$8724f8c0\$62e8b094@t7w6w7>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The following are in response to an article in RadCom (RSGB). I though those who do not get the magazine may like to read them. The original article was talking about how Mizuho get 25khz swing on their VX0s in the range of handheld HF rigs. The following appeared in uk.radio.amateur newsgroup.

.....

G3VA mentions the Mizuhi rubber xtals.

Believe they are not much different from ICOM xtals for IC202 and 402, covering 200kHz segments on 2m/70cm, or the FM-mod IF xtals found in different transceivers. The xtal used with FT-901/901 is easily tuned 8975-9025kHz, and similar xtals are used by Finnish 'Salora' on 14.7 (VHF) and 15.7MHz (UHF) in SRP25 transceiver series.

Mizuhi certainly prefer to sell their own xtals, but production of such xtals is not much trade secret, several manufacturers know how to make them. The problem is when you try to buy an xtal from a manufacturer who don't know the reason for using rubber-type-xtals.

Another problem is amateur who believe they know everything worth knowing, so one ask them, and try out several manufacturers who may or may not be able to make the proper xtals.

Over 25 years old (HC6/U) overtone xtals are usually better in vxo's operated on fundamental series resonant mode.

I am well aware of the circuit developped by Peter Parker (VK3YE), but sometimes one needs 'conventional' circuits.

You also seem to stick to conventional components and forget about the very useful ceramic resonators, they have far better coverage on 80m than the application mentioned by G3YUQ.

73

Jan-Martin

.....

: >G3VA mentions the Mizuhi rubber xtals.

: Unfortunately I didn't see the referenced article, but I have some experience

: wrestling with Mizuho crystals. I'll update here. If someone can transmit a copy of TT/Radcom 11/98 Page 61 to me, I would be *****VERY***** grateful, as you can tell below I have worked extensively on this problem/issue and would appreciate seeing another perspective.

: >Believe they are not much different from ICOM xtals for IC202 and 402, >covering 200kHz segments on 2m/70cm,

: Proportionally, 200 kHz at 144 MHz is actually a narrower band segment than (say) the 50 kHz that the Mizuho MX-14S (20M) rig offers. I also think

: the 402 is double conversion, and not depend on VXO properties of the xtal (I do know the IC-202 is VXO, and the IC-502 is pure VFO).

: >Mizuhi certainly prefer to sell their own xtals, but production of such >xtals is not much trade secret, several manufacturers know how to make >them. The problem is when you try to buy an xtal from a manufacturer who >don't know the reason for using rubber-type-xtals.

: As a point of perspective, Mizuho these days is just the original proprietor,

: holding forth in a very difficult JA economy. Manufacture of the three remaining MX-series hand-helds has been outsourced (40, 15, 6M) and the others essentially discontinued. There is also the possibility that the whip antennas are out of production altogether now.

: I had some luck with International Crystal Manufacturers in Oklahoma City, Oklahoma, a few years ago. They describe the "rubbering" parameter as "motional capacitance", or C1 (as opposed to loading capacitance, or C), in their crystal parameters. When specifying C1, a higher C1 would cause the crystal to be MORE susceptible to pulling by varying load capacitance.

: I had them analyze several Mizuho stock crystals in an attempt to clone the "formula". They then made these clones, and I would try them out. Eventually, some of the formulas worked reasonably well, but the actual range resulting from a given crystal would still vary from the intended range.

: I also found out that the Mizuho 1/4W rigs (15, 10, 6, 2M) use a different IF and crystal formula than the other (1W) rigs.

: Anyway, this cycle of crystal testing (it took 3-4 cycles working with an
: engineer at ICM) eventually produced some results, but nothing absolutely
: repeatable.

: So the results of this effort were some "new" ICM part numbers:

: 725677 (MX-2)
: 725680 (MX-7S)
: 725682 (MX-10Z)
: 725679 (MX-14S)
: 725678 (MX-15)
: 725685 (MX-28S)
: 725684 (MX-21S)

: If you calculate the fundamental crystal freq (you have to do this, ICM
: won't be able to help here), then specify the above part number, you'll
: end up with a crystal that was our last attempt at a clone of a Mizuho
: crystal. They aren't as accurate as Mizuho stock crystals, but they are
: better than no specification at all (usually that results in a much-too-
: narrow working range - I have some JAN xtals for MX-21S that only cover
: about 1/2 of the desired working range).

: After this cycle was done, some correspondence with a JA friend turned up
: the fact that Mizuho does alot of hand testing/picking of the xtals they
: supply, so in fact there is no great secret formula - the yield isn't 100%
: even for them.

: The other thing was that ICM has since withdrawn their courtesy crystal
: analysis service, so I decided not to try any further getting xtals made.
: Therefore, if you try one of the above part numbers, and aren't happy with
: the working range, all I can suggest is that you try again, having them
: make the xtal with the parameters of the part number, but a different C1
: parameter (higher or lower, depending on your experience).

: Or, contact a JA exporter or friend going to JA, and buy real stock xtals.
: As it turns out, that's not a terrible option anyway, because the cost of
: the Mizuho xtal is reasonable (about the same as ICM).

: >Another problem is amateur who believe they know everything worth
: >knowing, so one ask them, and try out several manufacturers who may or
: >may not be able to make the proper xtals.

: As my info above tries to convey, there is more to this than trial and
: error, altho there is an element of that too.

: >Over 25 years old (HC6/U) overtone xtals are usually better in vxo's
: >operated on fundamental series resonnant mode.

: You can still get HC6U package, altho the Mizuho uses a different package
: from this. I couldn't find any correlation between package and motional
: capacitance (C1) parameter - I think this may simply be coincidence.

: >I am well aware of the circuit developed by Peter Parker (VK3YE), but
: >sometimes one needs 'conventional' circuits.

: I just wish Mizuho had done a double conversion design with a repeatable
: VFO range, rather than VXO with so many different crystals, but so it is.

: 73 Dave WBOGAZ dgf@netcom.com

One hint...those radios use 60 PF capacitance, rather than the more 20 or
32 PF ones that most gear uses.

I have 2 of the 10 meter units(AEA DX-Handy)(1.5-2.0 watts)these are
the hand-held Mizuho units-and I forget which xtal corp I used(it MIGHT
have been Crystec), but they had NO problem making me some custom xtals
for my units-and they performed every bit as good as the stock xtals.
They had all of the data on the radios already on file!

.....

Frank G3YCC

GQRP Club 042

(g3ycc@g3ycc.prestel.co.uk)

QRP Web Site: <http://www.homeusers.prestel.co.uk/g3ycc/index.html>

Date: Thu, 5 Nov 1998 10:02:51 -0800

From: "Michael A. Gipe" <mgipe@reliablemeters.com>

To: "QRP-L list" <qrp-l@Lehigh.edu>

Subject: [24236] Fox: Tuesday fox! Be there!

Message-ID: <0db501be08e6\$842e7510\$140a0a0a@double_trouble.reliablemeters.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

This coming Tuesday evening, I will be your humble fox. I have my
shoulder pads, helmet, and other safety equipment ready, so jump into
the pileup! I'll be somewhere at the bottom.

UTC date/time 11 November 1998 0200Z

PST date/time Tuesday Nov 10 6:00 PM to 8:00PM

callsign

K1MG

Rig will be a Kenwood TS570D running a little under 5 watts to a 2 element yagi or G5RV. QTH is Saratoga, CA

Target starting frequency 7.037 MHz

In accordance with this year's rules, I will not be operating split; HOWEVER, I will make full use of my RIT. So spread out a bit and time your calls.

Please send your call only once each time, so I can fit as many hounds into two hours as possible. Remember, LISTEN, LISTEN, LISTEN.

Hope to be caught by every one of you! See you Tuesday night.

Mike K1MG

Date: Thu, 5 Nov 1998 13:06:24 -0500 (EST)
From: Bob Patten <n4bp@bc.seflin.org>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [24237] N4BP Web Page & Logging Software
Message-ID: <Pine.3.89.9811051258.C28790-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

A couple of errors were pointed out that have been corrected. Bruce Milne's QRP Pal is now available. Somehow, the pointer to it had been edited out of my index.html. I also removed the link to W4KGU and fixed the one to KI7MN.

By the way, I use NA rather than CT for most contests. The two are very similar, but I find NA a bit more intuitive. Unfortunately, there is no shareware version available... CT probably enjoys more popularity of the three major contest loggers (CT, NA, TR) and works just fine.

Yes, be sure to edit that sections.dat file for Sweepstakes. At least two (NNY, Northern New York and NL, Newfoundland/Labrador) must be added and probably at least one more. Check the file against a current list. And don't forget to work N4BP in SS this weekend! :-)

73,

Bob Patten, N4BP

(0 0)

Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Thu, 5 Nov 1998 10:19:46 -0800
From: "Barry L. Geipel" <bgeipel@primenet.com>
To: "Barry Lane Geipel" <bgeipel@primenet.com>, "Low Power Amateur Radio
Discussion" <qrp-1@Lehigh.EDU>, <pharden@aoc.nrao.edu>
Subject: [24238] Re: Zombie Shuffle Update
Message-ID: <199811051818.KAA16933@newspaper.cwi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all!

Here is my log from the ZOMBIE SHUFFLE. This was my first CW contest
and I had tons of fun. I heard a few more stations, but I could only
contact two.

73
Barry KF6RDI Zombie #516

OFFICIAL ZOMBIE SHUFFLE SCORE SHEET

- 1) __2____ Number of stations worked (not really used for anything!)
- 2) __1085_ Sum of Zombie numbers (add up ALL Zombie numbers worked)
ADD CAREFULLY. This could be a big number.

BONUS POINTS:

- 3) _____ Add 666 points if you're also a warewolf
- 4) _____ Add 666 points if you worked more than 13 stations
- 5) _____ Add 666 points if you worked 3 or more prime numbers
- 6) __666__ Add 666 points for each YL/witchesses you worked

- 7) _____ Add 666 points if you worked an Elvis
- 8) _____ Add 666 points for each Grand Zombie worked (Zombie #001-025)
- 9) _____ Add 666 points if at least one QSO was on 80M
- 10) __1751_ >Add up lines 2 through 9. This is your adjusted gross score.
>Look up your tax on page 38 and enter on your W-2 line 17 :-)

MULTIPLIERS:

- 11) _5500.9288_ Multiply line 10 by "pi" (3.14) if you're a Zombie (an OM)
- 12) _____ Multiply line 10 by "2-pi" (6.28) if you're a witchess (a YL)
NOTE: You can use any resolution of pi you wish.
- 13) _5500.9288_ THIS IS YOUR TOTAL SCORE. (Line 10 times proper multiplier)
(Took some work to get this to end on line 13!)

Log:

Freq	UTC	Station	Sent	Recv	QTH	Name	Number
7.040		0607 KF6GUH	559	549	CA	Becky	546
7.040		0638 N7MFB		559	WA	Bill	539

Date: Thu, 5 Nov 1998 13:34:57 -0500
 From: "Caitlyn M. Martin" <cait.martin@ibm.net>
 To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>, <thp@onelist.com>
 Subject: [24239] RE: Smallest Transceiver???
 Message-ID: <000401be08ea\$fd9f960\$4fc809c0@newtoninst.coim>
 MIME-Version: 1.0
 Content-Type: text/plain;
 charset="iso-8859-1"
 Content-Transfer-Encoding: 7bit
 Content-Transfer-Encoding: 7bit

Hi, everyone,

Conrad, this is great information! Thank you!

A couple of things I'd like to add. You kind of missed one rig which is

in about the same size class as the Scout: the Alinco DX-70. It is an excellent rig that bears consideration.

The Tokyo HyPower HT-750 does not meet the spec, as you said, since it only covers 6, 15, and 40 meters, but it is smaller than the smallest rig here, and that includes the batteries, so if someone is willing to sacrifice band coverage for absolute portability, it should be considered as a really good possibility. It is still in production, is FCC type accepted, and can be directly ordered from the manufacturer. Therefore, I'd like to see it in your article as a footnote.

> At any
> rate, the "low-volume winner" is the SGC-2020 at 113.7 cu
> in. However, Yaesu will soon claim the world record when
> they ship the new FT-100 in April, 1999 (source: Yaesu
> Communications) The FT-100 should come in around 91 cu in.
>
>
> The rest of the pack looks something like this:
>
> Icom 706-MK-II = 119.9 cu in
> Index Labs QRP+ = 132 cu in.
> Kenwood TS-50 = 152.6 cu in
> Patcomm PC-9000 = 165 cu in
> TenTec Scout = 176.7 cu in
> Elecraft K2 = 196.9 cu in
> Heath HW-9 = 334.2 cu in
>
> Note: the popular Sierra QRP transceiver is not included
> because it is CW only. The Tokyo Hi-Power HT-750 is not
> included because it is not all-band. The Index Labs QRP+
> and Heath HW-9 (CW only) are included for reference
> purposes only -- they are no longer in production.
>

Another footnote for the list: So long as I have my little FT-290R with me, I have another unusual tiny solution for HF. My Tokyo HyPower HX-240 transverter is somewhere around IC-706 or SGC-2020 sized. If you want, I'll measure it and let you know. (I don't have a manual, unfortunately.) It gives me 10-80 coverage, all mode, with a 2 meter IF. Of course, it cannot stand alone, so unless you happen to have a 2 meter all mode portable with you, it doesn't do much good. :) It also doesn't cover the WARC bands, or at least my version doesn't, and is out of production, so it's not worth including in your article, but it is something some folks here might like to be aware of. It was imported, and does show up on the used market from time to time.

My mouth runneth over, so I'd best cut this short.

72, and 73,
Caity

Date: Thu, 5 Nov 1998 10:40:16 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-1@lehigh.edu>
Subject: [24240] NorCal 20 Status Report
Message-ID: <01be08eb\$b6bd6b5e0\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It has been a long, arduous process, but the light is appearing at the end of the tunnel. First of all, Jim and I want to thank all of you for your extraordinary patience that you have displayed. It means more than you know to us.

The round two protoboards are back, Dave F. has built one, and it works beautifully. Just a couple of small layout problems which were minor mistakes, (a missed ground connection, and reversing the pins on one of the transistors). All of the problems that needed to be addressed have been successfully answered. It has taken time to do this right, but we have not wavered from our course.

Dave Meacham, Gary Surrency and Mike Gipe are now building round two prototypes, looking for any problem that they can find. Dave M. has just spent 25 hours doing the layout for the front and back panels. He had the board, and the parts, and he had to mount the parts on the board, make sure that they fit flush, and then do careful measurements for the layout. He actually had to reverse engineer the panel if you will. I now have those drawings, and I will be getting them to Doug Hauff who will take them to the sheet metal shop where we will get one case made (at a cost of \$100 for one case, ouch, setup is expensive, but we must test the layout before we commit to the production run.) We will then test the case with the board and make sure that everything is right. After we are satisfied, we will then place the order for the cases.

Mike Gipe has broken the schematic into 14 sections, and is building and testing each section as he goes. His work will be invaluable to Dave F. as he writes the manual. Mike also is handling the ordering and programming of the AFA chips for the kit.

Gary Diana and Brad Mitchell of Embedded Research are preparing the special Embedded Research NC20 chips for us. They were able to get the club a wonderful price on the chips for the Third World Kits, which they are selling the club at cost. They also gave us the 1000 off price for the chips that go into the kits that we sold to you. This was a very generous gesture on part of a couple of great guys.

Paul Harden is waiting in the wings in NM to do the testing on the rigs as soon as we can get one of the new prototypes to him.

Gary Surrency was chosen to build one of the prototypes because of his past history of being able to tweak and adjust kits to get the most out of them. He also has not seen the rig, nor been in on any of the discussion until now. He is a "new" set of eyes for us. Gary is busily working on getting his prototype up and running.

Richard Fisher will proof the manual when Dave finishes it. He is a professional journalist, and writes the QRP column for World Radio, the Member's News for QQ, and is a an editor for the ARS Sojourner. Dave will write the manual in Word, email it to Richard who will proof the material and promises to have it back in 3 to 4 days.

When the manual is in its final form, it will be printed out, and then sent to Jim Cates, who will take it to the copy center and get the manuals printed, collated and stapled. Jim also has addressed and stamped all of the boxes that we will use to mail the kits. They are all ready to go.

I have been ordering parts like crazy. Everything has been found and ordered. My living room is starting to fill with boxes. Have you ever seen 30,000 1N914A diodes? 215,000 resistors? 135,000 capacitors? 17,000 toroids. The quantities involved in this are mind boggling. It has also presented some problems. Through hole parts are getting harder and harder to find. The design of the NorCal 20 uses the controls and connectors to mount the board to the front and rear panels. (That's why Dave Meacham had to be so careful about the measurements of the layout for the sheetmetal work on the panels.) The good news is that I have found the parts. The bad news is that there is a delay. The center detente pot that we are using for the RIT control will not be here until Dec. 14th. 4 or 5 other parts will not be here until the 1st of December. What that means is that we will not be shipping the NorCal 20 until Dec. 28th or so, as we want to avoid the Christmas rush, and we have to get them kitted. I will start this weekend doing some mini-kitting. I will put the IC's on a piece of the black foam, I will package the resistors in a small envelope, etc. So, when the last parts arrive, all that I will have to do is drop them in the plastic bag, seal it, and it will be ready for Jim.

Our board house tells us that the boards will take about 2 weeks from the time we submit the gerber files. We won't be ready to do that until we have

all of the prototypes built, Dave makes the corrections, and then he sends off for what we all hope will be the final prototype which he will build to make sure everything is right for the final boards. Then we will send the gerber files to the production board house and get boards made.

Jim and I will be sending a letter explaining the delay and the new shipping date to all who have ordered kits. We feel that we owe this to those of you who are patiently waiting. Thank you so much for your understanding. All purchased kits will be shipped and then we will start kitting and shipping the 3rd World kits, probably in units of 50 kits at a time to George Dobbs. George and the G-QRP club will handle kit distribution.

As you can tell from reading this, that the NC20 has been a massive undertaking, and there are literally thousands of hours of volunteer work in this. But it has definitely been worth it.

72, Doug, KI6DS and Jim, WA6GER

Date: Thu, 5 Nov 1998 12:48:01 -0600
From: "Brockwell, Stephen E." <brockwse@fssec.army.mil>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [24241] Thanks for help on the 38s low volume
Message-ID: <BB6584384834D211AFC00000F8BDCA842B2E11@alrsrcv02>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

Many thanks to Glen Leinweber, Paul Harden, and Skip Davis for help on my 38Special with the very low volume. The 38 Special would not receive but had a good sidetone on transmit.

Originally whenever I touched U1 pin 1 (NE602) with an exacto knife or screwdriver I would get CW at a good volume and upon releasing it no CW sound at all. They all (in different ways) pointed the way to tracing the signal from the known good spot to the spot where the signal died. In tracing the signal from U1 to the antenna it seemed to focus on the T1 transformer (19 turns and 2 turns on a toroid) I took that sucker out THREE times and each time worked hard to get a good connection with all of the wire ends. Finally achieved a good solder joint when I took the time to really cleane the wire ends and the holes in the board and wouldn't you know it..... IT WORKS!!!

Glen, Paul and Skip..... thanks again.

Steve KC5TTY

Date: Thu, 5 Nov 1998 10:50:47 -0800
From: Brian Murrey <brian@iquest.net>
To: qrp-l@lehigh.edu
Subject: [24242] FOX - N/T+ Reminder
Message-ID: <3641F387.A18ADE24@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just a reminder...

I'll be doing the N/T+ Fox thing on 11/06/98 at 10:00 UTC

This is 5AM EST.

I will be starting at 7.106 or closeby. If the QRM is bad, I'll be moving UP the band to the 7.115 - 7.120 area.

Send your call only once. I'll try to make a list of two or three and work you in the order I copy your call. SEND in this order please:

RST #### ST ST NAME NAME NR ##### NR #####

Please send NR before sending your number so's I can get my ears ready.
Please send chars RST once before the double RST report.

Thanks to everyone that had the patience to try this rookie out last night. I really appreciate it. I felt like I was sending my code by beating two canned hams together by the time it was over. Had a heck of a lot of fun though. WOW.

I need a 6, a AL7, and anyone from New England for my WAS. Up to 26 now!

72 es Hppy Hntg

--

=====
NORCAL Zombie Brian Murrey KB9BVN QRP-L #1540
39.558 N 86.095 W Johnson Co., Indiana
GRID: EM69WN - NORCAL 40A - Attic Dipole - 1.8w
=====

Date: Thu, 5 Nov 1998 14:16:46 -0500
From: "George F. Allgood" <k4pym@carol.net>
To: <qrp-1@Lehigh.EDU>
Subject: [24243] ScQRPion Antler
Message-ID: <005901be08f0\$ed0a48c0\$b8cbeed0@204.116.183.2.carol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings from sunny South Carolina!

Just received my ScQRPion Antler roll-up antenna from Brian, W5VB0.
Great product. Lightweight, heavy duty, practical, affordable.
Now, if you guys could just come up with an automobile.....
72 and thank you
George F. Allgood, K4PYM
Walhalla, SC
The Garden of the Gods

Date: Thu, 05 Nov 1998 11:20:39 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-1@lehigh.edu
Subject: [24244] Sweepstakes and Field Day all-in-one
Message-ID: <3641FA87.F82F2120@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I will be operating SS from a campground in the central California
Sierra mountains this weekend. I intend to backpack a portable rig to a
fire lookout tower Saturday morning. The rest of the time I will be
running my MFJ 9040 from the comfort of my RV. Sweepstakes, Field Day,
backpacking and camping all rolled into one.....it doesn't get any
better than this.

=====
Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>
=====

Date: Thu, 05 Nov 1998 11:25:07 -0700
From: Kory Hamzeh <kory@avatar.com>
To: ki6ds@dpol.k12.ca.us, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [24245] Re: NorCal 20 Status Report
Message-ID: <3.0.5.32.19981105112507.00ac9bb0@ns1.avatar.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:40 AM 11/5/98 -0800, Hendricks, Doug wrote:

>
>Jim and I will be sending a letter explaining the delay and the new shipping
>date to all who have ordered kits. We feel that we owe this to those of you
>who are patiently waiting. Thank you so much for your understanding. All
>purchased kits will be shipped and then we will start kitting and shipping
>the 3rd World kits, probably in units of 50 kits at a time to George Dobbs.
>George and the G-QRP club will handle kit distribution.
>

Doug and Jim,

I personally feel that a letter is not necessary. Save your energy guys.
You're doing a great job. I would venture to guess that a large percentage
of the people that ordered the NC20 are on this list also, so they will see
your e-mail.

72 & 73,
Kory

Date: Thu, 5 Nov 1998 12:41:29 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu
Subject: [24246] FOX: another reminder
Message-ID: <199811051938.MAA31531@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Just in case, thought I'd remind you to look for me TONIGHT. I'm
expecting to start out at around 7.038 but of course won't know till I get
there. Starting time is 8pm MST or 0300Z.

As of tonight I will lose my perfect score in the foxhunt (9/9) because I can't work myself, so I hope you will feel some sympathy and take pity give me lots of contacts! [g]

73

Marshall Emm
N1FN/VK5FN
n1fn@MorseX.com
Morse Express
"Everything for the Morse Enthusiast"
<http://www.MorseX.com>
(303)752-3382
--

Date: Thu, 5 Nov 1998 15:04:42 EST
From: WD6BOR@aol.com
To: ki6ds@dpol.k12.ca.us, qrp-1@Lehigh.EDU
Subject: [24247] Re: NorCal 20 Status Report
Message-ID: <1a8e8f19.364204da@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Doug and Jim,

As far as I'm concerned, and I'm sure most of the others agree, I will be delighted WHENEVER the kit arrives. I fully understand that there are a great many volunteers doing in a few short months what a commercial enterprise would take a year or two and hundreds of thousands of dollars to do. I also appreciate the fact that you are all doing this to enhance our hobby and because you enjoy the challenge and the satisfaction of producing another great project.

So I would be just as happy if you kept your own workload down and saved the cost of the postage and didn't send me a letter. My expectation was that the kit will get here when it gets here, and not a minute sooner.

Heck, the anticipation is as much fun as actually building the thing.

Thanks again to all working on the NorCal 20.

72, Darrel, WD6BOR

Date: Thu, 5 Nov 1998 15:07:49 EST
From: Robspark@aol.com
To: KJ5TF@madisoncounty.net, qrp-1@lehigh.edu
Subject: [24248] AR QRP Net results
Message-ID: <8d87304a.36420595@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

The AR-QRP Net last night had 2 check ins amid poor band conditions. They were as follows:

KC0DX Ed running 5 watts into a Delta Loop. What a sig!
VE2KN Jim running 5 watts from Canada!

The NCS was Bob AB5ZD, QTH Alexandria LA, running 4 watts to a G5RV up in the pecan trees. Orientation of the ant wire is NNW to SSE.

The AR-QRP 40 net meets every Wednesday on 7.052 at 0130Z. It is open to members and non members! CU there!

72,

Bob AB5ZD

Date: Thu, 05 Nov 1998 13:28:52 -0700
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24249] Here FOXI FOXI!
Message-ID: <36420A84.652@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Marshall and All!

Chuck mentioned about gettin" out of the ditch and back on track" on one of his posts! Chuck, Im glad your back and thanking you for all your and others efforts from the enhancement of QRP.

On a slightly different note, I will be trying to find the fox tnt on

the tracks. Have to work, but at lunch break will set up on locomotive and whistle for the FOX!!

So Marshall, if you hear a cw note with a clackaty clack background, it is me!!

Good luck to all in the hunt!

72, Tom WB5QYT...."Have SPUD and BUG will travel!"

Date: Thu, 05 Nov 1998 20:33:15 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24250] FOX: SAM /KC5TJA
Message-ID: <36420B8B.524@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sam, I'm typing from memory and hope I have your callsign right.

Hey, let's set you up with a better antenna. Somewhat self-serving since I just KNOW I can get Oceanside, CA with 200 mW, been there with my early pixies...

So email to my we6w@juno.com AND we6w@qsl.net accounts and we'll see if we can create the Ultimate Sam-Tenna!

(No I won't be sneaky and adjust your beam to QTH WE6W :)

Maybe M93M?

Hee, hee.

-Ed

--

72, Ed WE6W (CW only/VP-0); <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 QRP-L#1068 AR#112 NC#2227 ARCI#9397 QAA#006

Date: Thu, 5 Nov 1998 12:57:11 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@lehigh.edu>
Subject: [24251] Ken Evans Special Guest at Dinner in Bay Area
Message-ID: <01be08fe\$dc7abfe0\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ken Evans, who is the secretary-treasurer of arkie was in the bay area this week and several of us met at St. John's Bar and Grill for dinner last night. Anreas Junge, Vic Black, James Bennett, Dave Meacham, Dave Fifield, Bob Tellefsen, Doug Hendricks and of course Ken were there. We had a great time talking QRP, I showed the guys a couple of articles that I have received from Germany (Andreas is fluent in German and did a few translations for me on the schematics), had a prototype straight key that Wayne Smith, K8FF is working on (NO we are not going to kit it), Bob Tellefsen brought his Steve Weber "Melt Solder" Spectrum Analyser for us to drool over, and Dave went over some of the last minute changes in the NC20. Dave Meacham brought the drawings for the panels on the NC20 case, and had his board with him with all of the controls and connectors mounted. Very nicely done, by the way. Thanks to Ken for thinking of us, and we enjoyed the visit very much.

72, Doug, KI6DS

Date: Thu, 5 Nov 1998 12:53:22 -0800
From: "Radman" <radman@best.com>
To: <cait.martin@ibm.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24252] Re: Smallest Transceiver???
Message-ID: <199811052050.MAA01668@proxy3.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Cait et al,

Cait: >>>A couple of things I'd like to add. You kind of missed one rig which is in about the same size class as the Scout: the Alinco DX-70. <<<

Thanks, I received several emails from DX-70 fans. It's actually on my *big* list and will be included in the final article. Sorry I missed it in my late night posting :-)

>>>The Tokyo HyPower HT-750 does not meet the spec, as you said, since it only covers 6, 15, and 40 meters, but it is

smaller than the smallest rig here, and that includes the batteries <snip> and can be directly ordered from the manufacturer. Therefore, I'd like to see it in your article as a footnote. <<<

Agreed, the HT-750 is a very interesting choice :-)
Perhaps, I'll create a couple of sub-categories for QRP dual / tri-banders that are dual-mode -- CW/SSB. Good suggestion :-)

>>>Another footnote for the list: <snip> My Tokyo HyPower HX-240 transverter is somewhere around IC-706 or SGC-2020 sized. If you want, I'll measure it and let you know.
<<<

Yes, I think a sub-category for small transverters would be appropriate. The measurements/specs and a URL would be helpful :-) In addition, I'm interested in any *future* JA (or other) all-band QRP rigs that are smaller than the new FT-100 (~100 cu in).

Thanks & 72 - Conrad Weiss - NN6CW

Date: Thu, 5 Nov 1998 13:58:32 -0700
From: "James R. Duffey" <ji3m@maxwell.com>
To: qrp-l@Lehigh.EDU
Subject: [24253] Praise in Public, Criticize in Private
Message-ID: <v03007804b267c11ad7bb@[199.120.49.103]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I came across this very useful axiom when I first started raising my kids;

Praise in Public, criticize in private.

I have found it very useful, and it is appropriate to other aspects of life as well, including QRP-L. I have trouble following it always, but when I do things usually turn out better.- Dr. Megacyale KK6MC/5

James R. Duffey <ji3m@maxwell.com> (505) 764-3143
Maxwell Technologies Inc. http://www.maxwell.com/
2501 Yale Blvd SE Suite 300
Albuquerque, NM 87106-4200

Date: Thu, 05 Nov 1998 16:19:32
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [24254] 11-2-10 project status
Message-ID: <3.0.3.16.19981105161932.0a5fae5a@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy Gang,

Conrad noticed some differences between the Maxon rig and the Radio Shack version. Conrad sprung for a RS service manual and sent it to me. I've found the differences are minor, slightly different layout on the display board where you need to make some cuts and jumps, some "optional" parts were removed from the pcb and some were moved or added. Nothing that really affects the conversion.

So, this weekend I will update the instructions to reflect the differences between the two models. All the parts are bagged, but we are still waiting for the ferrite cores. I just called and they were shipped Nov 30, so should be here very soon. Looks like early next week I'll start to send out the kits :-)

A number of people have asked if there are any kits left. At this point I'm not sure. There will either be a few or a lot, depending on if everyone who said they wanted one actually does. At the moment about 40 out of a possible 80 are definatly gone. That could change radically by Monday :-)

Looks like we will be taking over 10M AM before long! See ya there!

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Thu, 05 Nov 1998 13:12:29 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24255] Re: NorCal 20 Status Report

Message-ID: <364214BD.AD54D426@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hendricks, Doug wrote:

>

> It has been a long, arduous process, but the light is appearing at the end
> of the tunnel.

<snip>

To me, this is the most impressive pro-ham radio (and pro-CW!) project that has
ever been undertaken, and it's just a few guys who are doing it -- not ARRL,
not the equipment makers, not a public body.

You guys are definitely a spot of light in the generally dark picture of ham
radio today (no, I won't discuss this further), and I want to thank you for what
you are doing for *me* and for the hobby that has been so important to me for
the last 42 years.

73,

Vic, K2VCO

Fresno CA ex-KN2VCO (1956), 4X6GP (1981-88), FOC 1691, QRP-1 725

Date: Thu, 5 Nov 1998 16:15:09 -0500 (EST)
From: afpgreg@state.me.us (Paul V. Gregory)
To: qrp-1@lehigh.edu
Subject: [24256] FS: GRC-109 Special Forces rig
Message-ID: <199811052115.QAA29006@gatekeeper.ddp.state.me.us>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Cold War-vintage Special Forces and CIA issue 1950s - 1960s.

Station consists of T-784, RS-2B and PP-2685 ac-only power supply.

VGC cosmetically, excellent electrically.
3-22mcs coverage, xtal controlled (Pierce Oscillator--6AC7) xmtr (10-15w)
using 2E26 PA, 3-24 mcs continuous tune rx in three bands. PS accomodates
voltages between 76 and 260 VAC.

The tx was refurbished by US Army Depot, and has a sticker identifying such.

BTW, this GRC-109 station has uses screw-down, waterproof lids on each module (tx, rx es PS).

Price (FOB Maine): \$165.00 with one xtal and ac-plug (euro-to-us) adapter or make offer

Also available:

H251/U headphone: \$23.00. This is a headphone set that I understand is contemporary for the GRC-109's vintage, but was not issued with this station. Excellent condition.

TM11-5820-474-14 Manual (original) and compendium of literature \$25.00

The whole enchilata is available for \$200 FOB Maine. I'll include the wooden Coca-Cola crate I use to neatly house the entire station. It's kinda heavy tho.

(please feel free to forward/repost to other lists!)

tnx fer reading de N1ZR, Paul

Date: Thu, 5 Nov 1998 14:33:19 -0700
From: "Ron Smith" <resmith666@uswest.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [24257] Callbook Assistance
Message-ID: <017601be0903\$ef3173e0\$b523e1cf@ron>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anyone have Callbooks for 1976, 1977, 1978, 1979, 1980, 1981, 1982, and 1983 and care to help me by looking up my old callsigns?

Would be greatly appreciated.

72 to all...

Ron Smith
KD7VD
Boise, Idaho

Date: Thu, 5 Nov 1998 14:35:09 -0800
From: "Radman" <radman@best.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [24258] 11-2-10 ... where to buy CBs...
Message-ID: <199811052232.0AA26610@proxy3.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gangue,

There are a few remaining CB units (Maxon and RS) at various Walmart locations, RS stores and other locations. For WalMart store location, call 1-800-WAL-MART. They can give you the store locations nearest you and their phone numbers. Product number is: MCB-30, by Maxon. They supposedly can order it for you if any exist in their warehouse. For those in the SF Bay Area, there are five units at three different stores in Fresno, CA. (Thanks to Dave - AB5PC) and one at the Milpitas store.

"Bills 2-Way" in Morgan Hill, CA has one. Call: 888-710-4094 or 408-782-0064. (Thanks to Larry - K3PEG)

In Mississippi, there are three RS units -- #21-1701. You can call Hazel at the Radio Shack order number, 1-800-223-8344. She will take the info, then call you back with a quantity and price. And, for the Maxon you can call: Long Electronics, 1-800-633-3410. (Thanks to Mike - K5XU)

You can also check with your local, friendly RS manager... should be a couple left in your "district." If anyone else comes across CB units, please post the info to QRP-L, with "11-2-10" in the subject line.

Thanks for the info you guys :-)
GL & CU all on 10M -- AM,

Conrad - NN6CW

Date: Thu, 5 Nov 1998 17:36:52 -0500
From: "Caitlyn M. Martin" <cait.martin@ibm.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [24259] RE: SSB QRP
Message-ID: <000c01be090c\$c913fb20\$4fc809c0@newtoninst.coim>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hiya, Chuck,

>I thought that QRP was only
>effective when using CW.

I am very glad you discovered otherwise :)

> I threw out a
> CQ on 7.180. On the very first call I had two stations come
>back. <snip>
> I wonder why QRP on phone is so rare?

I don't think it is, and I don't think this list is reflective of those who run QRP as a whole. I doubt the majority of QRPers are exclusively CW ops. I have been running SSB QRP for longer than I'd care to say, and I've worked many other stations doing the same. QRP seems *easier* on CW is all.

I'd also submit that 40 meters isn't the easiest band to work QRP on, from my experience. 20 would be great if we weren't stepped on so easily, but I've had some fun there anyway. 17, 15, 12, 10, and 6 meters are the QRP SSBers dream bands. I've now had a 57 report from my Tokyo HyPower HT-750 (this past weekend, here to Colorado, 15 meters) running 3 watts PEP into the pull up whip and coil on top of the HT.

QRP on phone is fun, and there is a lot of it going on all over the world. Just not on this list...

72,
Caity
KU4QD

Date: 06 Nov 1998 05:36:12 -0500

From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
To: qrp-1;;
Subject: [24260] Re: Elmer200: Lesson Number 2
Message-ID: <1998Nov06.053612-0500@[130.113.234.7]>

In <199811051425.JAA27034@nss4.cc.Lehigh.EDU>, Chuck Adams wrote:

- >1. Look at the waveform on a O-scope while feeding a 50 ohm dummy load.
- >2. Look at the waveform on a O-scope while feeding an antenna on
> 10 meters.
- >3. Look at the output using a spectrum analyzer if you can find one.
> Under both 1 and 2 conditions.
- >4. Using the formula above for the series of sine functions, compute
> the power levels at each of the odd harmonics. Compare that with
> the numbers shown later below from Paul Harden, NA5N, and his
> measurements. Multiply the amplitudes of each harmonic by 4 in the
> above formula.
> Remember to calculate RMS values, etc to get the power levels
> correctly.
- >5. Figure out what the impedance is for the TTL oscillator.

Chuck,

Just did a quickie experiment (leads flying all over -
a haywire setup if you EVER saw one) on a 28.322 MHZ Canned Oscillator.

How to feed a 50 ohm load?

Well, first thought is to simply stick a 50 ohm resistor
from output pin to ground....

DOH, output voltage is a paltry 1vpp. Not so good.

Second thought: AC couple the 50 ohm load to output pin
with a coupling capacitor (in series)....

A little better - output voltage goes up to 1.5v p-p.

Third thought : Instead of GROUNDING one end of the 50 ohm
load, attach to +Vcc (5v) line.

Aha! Output voltage is a decent 3.7v p-p.

Conclusion: The output stage drivers are VERY non-linear.

The TTL output circuit (probably Schottky at this frequency)
consists of a NPN pulling down to ground, in series with a weak
NPN pulling up toward Vcc.

When you GROUND the load, the weak pull-up transistor can't supply
enough current to pull up very far. The stronger NPN pulling down
has very little current to pull - it is ineffective. So output voltage
swings between 0 volts to +1 volt.

When you run the load between output and +Vcc, the weak pull-up
NPN is now the ineffective one. The stronger pull-down NPN does all
the work, and you get a lotta volts into the load.

Here's the specs for various TTL logic families for pull-up current versus pull-down current:

	TTL	L-TTL	LS	ALS	S	AS	
pull-up	0.4	0.2	0.4	0.4	1.0	2.0	(mA)
pull-dwn	16	3.6	8.0	8.0	20	20	(mA)

You can see that TTL is much happier pulling current to ground rather than pulling a load toward Vcc. So to get maximum output from TTL, put the load between Vcc and the output.

What about CMOS? Here, the pull-up and pull-down devices are much more closely matched, so it won't matter as much whether you ground the load or terminate at Vdd voltage.

Glen VE3DNL

Date: Thu, 05 Nov 1998 14:49:06 -0800
From: Pierre Constantineau <pierre@cmpe.ubc.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24261] miniR2 and R2 phase shifter
Message-ID: <36422B61.CFFD5BB6@cmpe.ubc.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi everyone,

I have tried to figure out how the phase shifter in the R2 receivers works. I looked in every textbook I have and I could not find anything on this design.

Anyone here can make things clearer?

Thanks

--

/'^'\
(o o)

-----o000--()--000o-----

Pierre Constantineau	B.Eng	Email: pierre@cmpe.ubc.ca
M. Applied Sciences	Candidate	Phone: (604) 822-2913
Flash Smelting Group		Fax: (604) 822-4750
Centre For Metallurgical		111-2355 East Mall
Process Engineering		Vancouver, BC, Canada
U. of British Columbia	.ooo0	V6T 1Z4

http://noname.cmpe.ubc.ca () 0000. Amateur Radio: VE7JPC

-----\ (---()-----
 _) /
 (_/

Date: Thu, 5 Nov 1998 14:57:35 -0800
From: "Radman" <radman@best.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24262] 11-2-10 ... CB & "Mr. Beer" ... Part 2
Message-ID: <199811052254.0AA12683@proxy3.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Folks,

In my previous posting about special-ordering Maxon CBs from a WalMart store -- let me clarify that. You *can* special-order the Maxon CB by going to a WalMart store and placing the order. You can *not* mail-order or order via the Internet. Annoying? Yes, but WalMart reminds all QRPers that by browsing to URL: <http://www.wal-mart.com/> you can order your "Mr. Beer Deluxe Micro Brewery System" for merely \$29.97 w/ a \$10 rebate. Is this QRP related? I'll let you decide ;)

72 - Conrad Weiss - NN6CW

Date: Thu, 5 Nov 1998 18:12:21 -0500
From: "Caitlyn M. Martin" <cait.martin@ibm.net>
To: <kf2ew@juno.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [24263] RE: My daughter has a CALLSIGN!
Message-ID: <000e01be0911\$be330020\$4fc809c0@newtoninst.coim>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Dear Mike,

>

> Sorry, everyone, but I have to let it out. Back in the
> Spring I listed

> that my five year old daughter had passed her novice morse code test.
>
> WELL...I am even more pleased to announce that, at age 6, she
> has passed her written and her new call sign is KC2EEQ.

Wow! I worked a 7 year old girl in Alaska on CW (yes, I did that once upon a time) on 15 meters, and thought that was just incredible. Your daughter is the youngest licensed ham I have ever heard of! You must be proud!

>
> Her ninth QSO was QRP with W8XS in Cincinnati while operating from a
> tent.

Fantastic! Does she ever get on 10 meter voice?

Anyway, tell her this much older girl is very, very impressed with her, and I hope to meet her on the air someday.

So, tell me? Has she seen the movie "Contact"? Does she identify with Jodie Foster's character, particularly as a young ham operator with her dad?

Also, please encourage any interest in the sciences or electronics she does have. When I was her age, female engineers and scientists were rare. Now it's common, and groups like Webgrrls and WIT (Women in Technology) have mentoring programs in the schools. The benefit young girls have today is that they can choose any future they want, whether it be one in a traditional woman's role or not. What feminists have been fighting for is that freedom of choice, and while there is still some ways to go in terms of equality in wages and in societal attitudes, for the most part young girls today can reach for the stars, follow their hearts, and live their dreams. The keys, to me, are education and supportive and involved parents. Your daughter seems to have all of that, and you and your wife deserve the credit.

All the best,
Caity
KU4QD
Network Engineer
Newton Instrument Company, Inc.

Date: Thu, 5 Nov 1998 18:36:12 -0500
From: "Caitlyn M. Martin" <cait.martin@ibm.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [24264] RE: Teaching Ham Radio to Children

Message-ID: <001201be0915\$131614d0\$4fc809c0@newtoninst.coim>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>
> If your daughter is getting discouraged you might start
> with the CW part first. Yes, I know you are trying to
> get the no code tech but the CW might be fun for her.
> My son has a real blast learning the code. It is one
> of the first things he asks about when I would get home
> from work. "Let's go beep dad," is what he says.
> It's really helping him with his spelling and reading
> too.

I read somewhere that for young children (under 12) the Novice class license was an easier road into the hobby than the no code Tech. CW comes easily to most kids. It did to me when I was 10 in summer camp. My parents discouraged it, though. The hard part is the written test.

I think this is just excellent advice.

73,
Caity
KU4QD

Date: Thu, 05 Nov 1998 17:56:47 -0600
From: Wayne Alexander <walexan@ipa.net>
To: Lamborn@onlinecol.com
Cc: qrp-l@lehigh.edu
Subject: [24265] Re: Sweepstakes logging program
Message-ID: <199811052356.RAA04998@ns3.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Seems to work great, I have downloaded it and looks great also.

At 08:38 AM 11/5/98 -0600, you wrote:

>Hi all,
>

>Scott, N3FJP offers a free sweepstakes logging program for Windows 95/nt

>users. Email him a snkdavis@aol.com. He will send the program as an
>email attachment. See "STRAYS" page 70 of the November QST for more
>details. I have not received a copy yet so I cant state how it works.

>

>72,

>

>Steve Schroder, KI0KY, Hotchkiss, CO QRP-L 1303

>

>to: in:qrp-l@lehigh.edu

>cc: IN:Lamborn@onlinecol.com

>

73,

KB0PTE

Wayne

FISTS # 4907

QRP-L # 1058

End of QRP-L Digest 1267
